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1950

IRIS CATALOGUE

(HYBRIDIZER'S HANDBOOK)



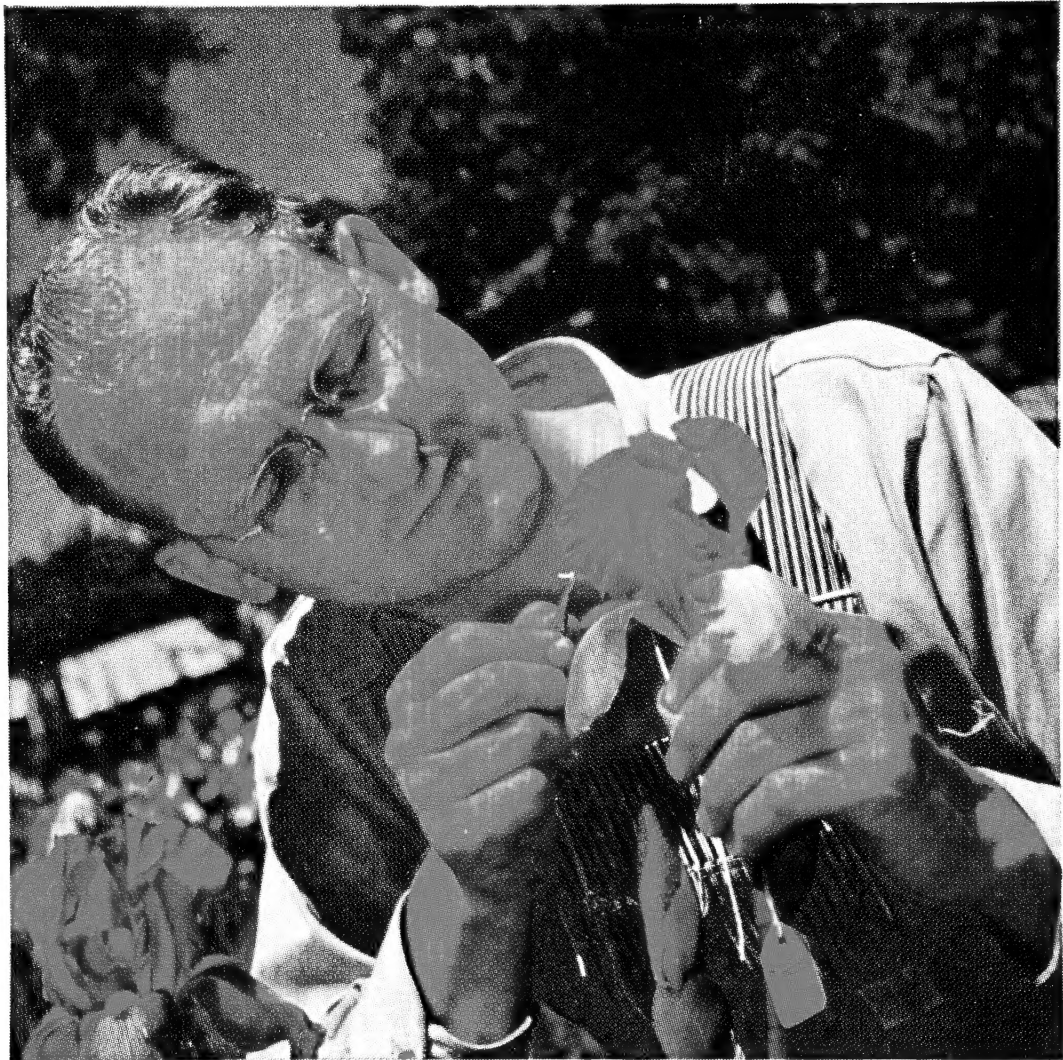
TELL'S

IRIS GARDENS

691 East 8th North



PROVO, UTAH



The Hybridizer: Tell (with 5 o'clock shadow)

The Iris: LADY ALBRIGHT

1950

Tell's Iris Gardens

TELL MUHLESTEIN, Hybridizer and Introducer
691 East 8th North -- Phone 533-W
PROVO, UTAH

FOREWORD

GREETINGS, IRIS FRIENDS:

Well, it's that time again! Time to "drool" over new catalogues, or some long-anticipated variety that has at last come within one's financial means. Or is this the time things take on a "dream-world" influence and one's being seems to be lifted out of commonplace things—the heart seems to beat a little faster, one's blood courses through a tingling body that can neither sleep nor stay the waking hours from the beauty about to unfold—revealing old friends whose virtues and faults are accepted with the greatest of pleasure. Wild, or mad insanity? Who knows? Who cares? I doubt any of our clan would change one minute of it (save, at times, the weather), and we are never free of this disease, not one season of the year, for even after bloom is gone we are busy transplanting, dreaming new color-combinations—new symphonies to play with our "colorful musicians"; and for those who hybridize there is constant vigil over seed pods, beds of seedlings, and for all of us a winter of dreams; and nights, again with all the catalogues. Then comes spring and sheer nostalgia fills the air. And who among us has not thrilled to the sight or feel of the first "fattened fan" which tells us there is beauty here in just a short while. Then we feel anew a surge of strength that, somehow, sees us through the long hours of cleaning up the garden, the back-breaking weeding, watering and "feeding" our subjects. But, enough!

You'll see I've added a little color to the catalogue this year. This is made possible, of course, through the many hundreds of friends and customers we have made since 1944 when our first single page list was issued. While I am not a "big" grower I try to keep up to date with new varieties so that our listings will be interesting to those who like to own the novelties—then, too, since we are hybridizing it is good for our judgment to have the new things for comparison purposes, and we do have a lot of guests from fanciers all over the world, and I will say here these are considered guests and are neither given away, divided, distributed, or destroyed without the permission of the hybridizer. It has been the practice of those who "guest" iris to return the clumps intact unless otherwise directed by the owner of the stock. I was quite surprised last year, however, to have one commercial grower bill me fifteen dollars each for guesting three iris for me when I demanded the return of my stock (after growing it for only one season) with demand for a cash payment, when I did not give her a plant of my one introduction, and she wrote: "No wonder all the hybridizers say you are conceited." I could not understand this. Even if it were true, and I don't believe my friends will agree with such a statement, it wasn't in good taste, regardless. Perhaps I was unwise to say that "Pink Formal" was a "FABULOUS" iris. But the word to me may mean something quite different than it would to you or possibly to some other hybridizer. I should have said, "a good step forward," and that is what it is. And here I am going out on a limb this year with the naming and

introduction of a yellow iris: Fabulous Kate. I wonder what comment this will bring?

After the Portland meeting last year my Utah friends came back with one suggestion: "Tell, the only adverse criticism we heard about you was that you introduce too many iris." Some of my friends by correspondence have made the same remarks to me, and I appreciate these for I know they are well-meant, however, I feel to agree with Sidney Mitchell who says, "Let the hybridizers introduce all the iris they want—only the good ones will live very long." I have grown approximately ten thousand seedlings yearly—surely my average should not be worse than those who grow less, although, perhaps I am not so scientific in my work as some of our better known hybridizers. Surely any hybridizer should expect one good seedling out of a thousand. My average of named iris has been far below that, yet this year I am offering ten new iris of my own—several of which I am introducing simply because of their high breeding value, or the fact that garden visitors have wanted to own them, and as I wrote last year, I would rather sell them with a name than a number. I will continue to give both the good and bad qualities of the iris I introduce—knowing full well, surely, that no iris is perfect. We must remember, however, in judging new iris that we cannot judge a first year plant. For instance Pink Formal was grown outside last year for the first time—varied reports came in—some indicating that the plant performed quite well—gave almost typical branching, size and color, while others indicated the branching to be poor—or the color dirty, etc. I have seen first year plants here that were devoid of branching and the color and form of the flower was not in any way typical. The color plate of Pink Formal in this issue is not, either, typical except in branching—this was a stalk which I had injured with a hand-cultivator and had caused the stalk to bend, but normal stalks are heavy and straight. My cousin grew Pink Formal in a new soil hauled from Utah Lake shores and evidently the large amount of alkali caused the plant to grow with little chlorophyll in the foliage and the flower bloomed almost white. On a two year plant, however, the color was very deep, with a bit of lavender on the falls, so one can see from this that soil, water, etc. does affect the growth and color of varieties. Blue iris, I am told (and I have seen it here in several gardens) are much bluer in some sections. Helen McGregor, for example, in high altitudes where the blooming season is rather cool will retain its fresh blueness whereas in very hot climates the blue fades to white, but in any event it is still a beautiful iris. Any variety, however, should not be judged too severely until it is seen on an established two year plant. Some varieties are not at their best until their third year. It was pleasing to me to see that other growers and judges of iris have come to an appreciation of some varieties with less or rather narrow branching as seen by John Dolman, Jr.'s report in the A.I.S. bulletin No. 115, page 48. It is true varieties with fine branching—low and wide—make wonderful first year plants or excellent show specimens, but they may be unsightly in two and three year clumps where the flowers are often down in the foliage or the stalks twisted or intermingled with other stalks in the same clump, or sprawled on the ground (unless staked). I still feel the primary factor in any iris' quality is color with substance very important as well. I'm sure all hybridizers are striving to produce iris with greater substance to withstand the rigors of nature—wind, rain and hail, to say nothing of extreme sunlight and heat.

Again I hope you enjoy this catalogue, and again thanks for your good orders and your kind notes of appreciation for this catalogue and our service.

Best wishes for a good iris season, glorious seedlings and exciting new crosses for all who pursue this wondrous game of hybridizing.

Sincerely,

TELL MUHLESTEIN

Our 1950 Introductions

- BELLERIVE** (Clifford W. Benson) Midseason. 42 Inches. (Birchbark x Gallant Leader.) Huge, ruffled deep cream with a smooth glistening sheen. Standards domed, falls flaring. Very strong stalks. All our garden visitors asked about Bellerive last year. To us it looked good and seems a vastly improved Vision Fugitive. Fast of increase. Blood here for creams, yellows, whites and reds. Certificate of Commendation and Highly Commended awards 1949. Net\$10.00
- CELESTAR** (Carl Larsen) Midseason 38 Inches. (((Los Angeles) x (Don Juan x Titan)) x (San Francisco)) x (Aldura))) x (Tiffany) White with a flush of lavender-purple on one side of the falls only. This same purple is seen on the large buds—and is as if the color has faded through onto the flower. Made an exciting arrangement at the 1949 Salt Lake City iris show. Will make a wonderful parent for plicatas and lemons. A large, full, well branched variety. H.C. 1949. Net.....\$15.00
- DREAM ALONG** (Muhlestein) Midseason-Late 40 Inches. (Daybreak x Three Oaks) Large, smooth deep pink blend that has inherited, we believe, the best qualities of each of its parents. Good size, form, heavy substance and splendid branching. Its seedlings are exciting. Fairly good stock. Net.....\$3.00
- EVENSONG** (Valentine Frazee) Midseason 36 Inches. (N. J. Thomas x Sdlg.) The best N. J. Thomas seedling I have seen. A very wide, full flower, with quality galore. Standards are Mignon purple, falls Patriarch purple according to Plate 43 of Maerz and Paul, Dictionary of color. One branch, ordinarily, which is technically quite faulty since it forms a "Y" shaped stalk, but we think you will like the flower for its quality and its breeding possibilities. Certificate of Commendation 1949. Net.....\$10.00
- FABULOUS KATE** (Muhlestein) Midseason 36 Inches. (Late Sun x Radiant) x (Pink Formal) Although we have many good yellows there is always room at the top for something better or different. Fabulous Kate is a very large medium yellow with somewhat open standards, falls that flare with a delightful dip, or wave, giving the flower great individuality and a strong personality. Must be seen to be appreciated. I have named this iris for Mrs. Kate B. East to whom I owe a debt of gratitude for telling me I had nothing in my collection of fifty "remarkable" iris. When I saw her collection, which at that time was up to the minute and contained such notable iris as Marquita, Dolly Madison, Purissima, and Violet Crown, I knew I had NOTHING. Mrs. East's iris, and her enthusiasm, were my inspiration to want to create new kinds, so I look on this lady as "fabulous" and thus name a very worthy iris for her. This is the first seedling of Pink Formal to be introduced. It should be a useful parent for large pinks, rich yellows, blends, oranges, salmons, and orchids with tangerine beards. Net\$15.00
- FLURRY MOHR** (Clara Rees) Early-Midseason. 42 Inches. (Snow Flurry x Capitola.) Very large rich deep violet-purple. Stalks could be stronger and the standards do fall open after the first day, especially under adverse weather conditions. Introduced primarily for those who like huge flowers, and for those interested in this blood for hybridizing purposes. There were three seedlings from this cross. This is No. 2 and is not distributed. Net.....\$5.00
- LADY ALBRIGHT** (Muhlestein) Midseason-Late 36 Inches. (Veishea x Bronzed Copper) Named for one of our most colorful and most beloved Utah iris fanciers, Margaret Albright. Once, jokingly, she exclaimed, with her usual exuberance, that if I should ever produce an iris "loud" enough I should name it for her. When Lady Albright bloomed for the first time I knew I had found an iris colorful enough to bear her name. Those who attended the Portland meeting will recall her, surely, for she kept everyone in high spirits with her wit, humor and vivaciousness. Now, to describe the iris, although it is pictured together with its "papa" on the cover of this catalogue. Standards Dianthus (plate 5 K 3) Falls Amaranth plate 44, L 8) with hafts and edges of falls color of standards. Colors from Dictionary of Color. Good sized flower. Falls slightly narrow for size, but a technical fault everyone will overlook for there is no more colorful flower in the garden. Certificate of Commendation 1949. Net\$15.00
- MOHRESQUE** (A. D. Keith) Midseason Height 40 inches. (Presumably; Doxa x Zwanenburg) Standards light brown. Falls yellowish buff on edges deepening to near chartreuse at haft, with purplish flecking in the falls. Wide and full of parts. It will be one you either like a lot or dislike. Many of our garden visitors wanted it last year. Will produce some seed. May be highly useful with other hybrid lines. Net.....\$5.00

- PATRICIA JOYCE** (Laura Maudlin Pullar) Early-Midseason. 46 Inches. (Purissima x Collier Bruno sdg.) Large clean cut iris on patrician lines. The smoothest cream I have ever seen. A complete self with an orange beard. Standards wide, round and arched. Falls wide, well rounded and gracefully curved. One critic said the only fault he could find with it was its lack of better branching, and that a slight one. I feel it is destined to be liked and widely grown. Patricia Joyce will take its place among the many other great Purissima seedlings. Net\$10.00
- SALMON SHELL** (Muhlestein) Midseason-Late. 36 Inches. (Midwest Gem x Hall's 42-10: Golden Eagle x 39-62.) Large, full flower of a salmon-pink coloring with deeper salmon beard. Crossed with Pink Formal gave some very fine seedlings. It has blood to produce rich color and ruffling in its offspring due to Midwest Gem blood. Moderate of increase. Limited stock. Net\$10.00
- SONG OF SONGS** (Luzon Crosby) Early to Late. 38 Inches. (Gold Ruffles x Cream Gold.) Novel and charming as any iris personality ever to reach stardom. Light yellow standards, clean white falls of an opaque or iridescent quality edged color of the standards. Edges of both standards and falls done in "chantilly" lacing. The hybridizer has achieved what almost every breeder seeks—the best qualities of each of the two parents. Mrs. Crosby's first introduction and a critical choice from among thousands of good seedlings. Highly Commended 1949, under number 48-17. Limited Stock. Net.....\$20.00
- SUNSET ROAD** (Muhlestein) Midseason 36 Inches. (Prairie Sunset x Tobacco Road.) Very large golden-brown. Introduced for breeding purposes since this line of blood is especially fine on Honeyflow, Dream Along, and other things with Sass and Kleinsorge blood. Net....\$2.00
- THE SHOWMAN** (Muhlestein) Very late. 36 Inches. (Arab Chief x Bryce Canyon) Almost a double, in coloring, for Sunset Blaze, to which it is related, but blooming as it does at the end of the season will not compete with it. Poor branching—its one fault. Color according to Dictionary of Color: Standards Indian Red (Plate 6, L 12) Falls Saona (Plate 6, F 11) Highly Commended 1948. Limited stock. Net.....\$10.00
- UTAH LAKE** (Muhlestein) Midseason-Late 42 Inches (Great Lakes x Shining Waters) Tall, well branched blue—a bit deeper than Great Lakes. Our garden visitors have asked for this, so we introduce it for them, and at a modest price. Beautiful garden clump, heavy, clean foliage. Net\$2.00
- UTAH SPECIAL** (Muhlestein) Midseason 36 Inches. (Old Parchment x Mellowglow) A most luscious, delicate blending of peach, cream, buff, salmon, apricot and pink in a beautifully formed, well branched variety. There is some fading in full sun, so would recommend partial shade during mid day, if possible. Some ruffling adds to the charm of this novel blend. No pollen and as yet has produced no seed, but if it will seed should produce exciting things. Net\$10.00
- VELVET MANTLE** (Mrs. Fred H. Clutton) Midseason-Late. 48 Inches. (Cheerio x E. B. Williamson) Soft but warm red bi-color. Standards remain closed. Falls semi-flaring, velvety and devoid of haft markings. Good size, three or four branches. Color according to Dictionary of Color: Standards: Ambrosia (plate 6); Falls: Peony Red (Plate 7.) Here is a red with an unusual quality in that it harmonizes with almost every color in the garden: Yellows, blues, whites, blends and pinks. We feel it is going to be a very important parent in the red class for it has height, branching and a smooth quality without the purple seen in many so-called reds. I have used it extensively in my work with reds the past two years. Net\$15.00
- WAXY WHITE** (Muhlestein) Midseason-Late 40 Inches. (Whiting's 40-86: Matula x Midwest Gem) x (Hall's 42-10.) Tall, well branched pure white with orange beard. Domed standards, flaring falls. Get this form in the pinks and we will have achieved something. Introduced for breeding pinks, primarily, but should be useful for creams, blends, yellows, and whites. Net\$3.00
- WHITE SMOKE** (Clara Rees) Midseason-Late 42 Inches (Snow Flurry x Sdlg.: "Big Dipper") Stunning big blue-white that starts the midseason and continues to the last, and therefore carries the loveliness of a Snow Flurry-type flower to the end of the iris season. Beautifully formed, full, heavy substance. Possibilities for great breeding here, too. Net.....\$10.00
- YELLOW TOWER** (Muhlestein) Midseason-Late. 42 Inches. (Painted Desert x Hall's 42-10) Tall, well branched medium yellow slightly deeper in tone than Chosen, in a better formed flower, with some slight ruffling at the hafts. Many have asked for this both for its garden value and its breeding possibilities. Yellow Tower should produce fine pinks, salmons, blends, oranges and other unusual colors. Net.....\$3.00

Tell's Iris Gardens - 1950

TALL BEARDED IRIS

- ACADIA** (Tompkins '46) M (Honeyflow x Colorature) Wide, lemon-yellow. Wonderful blood here!\$2.00
- ACE HIGH** (Lyell '45) M (Calif. Gold x Happy Days) Clean yellow, light area in falls.\$.75
- ACROPOLE** (Cayeux '39) M (Fakir x San Francisco) Heavy Plicata.\$1.00
- ACTION FRONT** (Cook '42) E-M (From: Morning Splendor, Seminole, Cinnabar) x (E. B. Williamson) Good red. Splendid parent.\$1.00
- ADELANTO** (DeForest '41) M (Druid x Alta Calif.) x (Naranja) Yellow-ocre brushed brown, Should produce oranges, plicatas.\$.50
- ADMIRATION** (K. Smith '46) M (I-21: Aubanel x X-76) x (K-118: Chosen x Yellow Glory) Large, impressive heavy subenced yellow. One of the best! H.M. '47.\$6.00
- ADVENTURE** (Grant '41) M (Prob. from Mary Geddes) Yellow plic, marked rosy-brown.\$.50
- AFTER MIDNIGHT** (Muhlestein '49) M-L (Storm King x Sable) Tall, better formed Sable; Later blooming. C. of C. '47.\$2.00
- AGLOWING** (Horton '45) M (Golden Hind x Golden Treasure) Very brilliant clean yellow. Splendid.\$5.00
- ALADDIN'S WISH** (Murawska '45) M (Buechley's Giant x Pluie d'Or) Blue brushed gold. Unusual!\$3.00
- ALASTOR** (Spender '40) ML (Sdlgs.) Cyclamen pink with brilliant orange beard. A.M. '41.\$.60
- ALBA SUPERBA** (J. Sess '43) ML (Snowking x Happy Days sdlg.) Huge quality white. H.M. '43.\$2.50
- ALDURA** (C. Larsen '43) E-M ((Don Juan) x (Titan x San Francisco)) x (Wasatch) Quality large, wide blue and white plicata that is proving a remarkable parent. Crossed by Capitola pollen gave me two wonderful seedlings wide, with heavy and superb substance. H.M. 1947.\$1.00
- ALICIA** (Rawlins '48) E-M (Great Lakes x Gloriole) Delightful new blue having the quality of its two great parents. Should make a wonderful parent for blues and whites. Destined to be popular.\$12.50
- ALLUMEUSE** (Gage '38) ML (Dorothy Dietz x Sir Michael) Lovely blended violet bi-color neglecta; blood for this color and amoenas.\$.50
- AMANDINE** (G. Douglas '46) M-L (White Prince x Caroline Burr) Wide, full cream. A.M. and President's Cup 1948.\$7.50
- AMARANTH** (Whiting '42) M (Cheerio x Ossar) Amaranth) (Rosy Purple) color, Parent of Campfire Glow and Gypsy Rose. Wonderful blood for reds and blends.\$1.50
- AMBER GEM** (Salbach '46) M (?) Splendid large, showy, chestnut-brown and gold. H.M. 1947\$5.00
- AMIGO** (E. B. Williamson '34) ML (?) Lovely neglecta. A.M. '38.....\$.50
- ANAKIM** (Kleinsorge '34) EM (Souv. de L. Michaud x Bruno) Large Violet-blue. Very fertile pollen\$.50
- AND THOU** (Graves '42) M (Purissima x Nene) Blue white proving a remarkable parent with Great Lakes and seedlings of it, or Purissima blood. H.M. '42.....\$1.00
- ANGELUS** (Egelberg '37 ML (E. Egelberg x Depute Nomblot) Very late orchid-pink. Fertile pollen. Parent of Pathfinder. H.M. '39\$.50
- ANITRA** (H. Sass '36) M (Purissima x Oriana) Clean Light blue classic. H.M. '37.....\$.40
- ANNA WILLIAMSON** (P. Cook '46) M (Sdlgs x Rameses, sister to Majenica) Bi-colored pink blend. H.M. '46.....\$3.00
- ANNE-MARIE BERTHIER** (Cayeux '38) M (Lost —probably involves Purissima) Greenish-white\$.50
- ANNE NEWHARD** (Weisner '40) M (?) Rich velvety bi-color H.M. '44.....\$.75
- APEX** (Tompkins '47) ML (Garden Glory x Jasper Agate) Fine rich red worthy of its parents. Should be wonderful with Redwyne, Campfire Glow, Amaranth, Burmese Ruby, Garden Flame, Orelia, Ranger, etc.\$15.00
- APPOINTEE** (White) M (?) Greenish brass-yellow\$1.00
- ARAB CHIEF** (Whiting '44) L (Raejean x Garden Magic) Rich burnt orange. Wonderful parent both ways. Use for reds, coppers, browns, and blends. H.M. '46.....\$2.00
- ARCADIA BUTTERCUP** (Milliken '47) M ((2384: Dauntless x Easter Morn) x (Alta Calif. x 1350)) x (2056) Smooth, brilliant yellow that will command attention in any planting. H.M. '48.....\$5.00
- ARETHUSA** (Gage '40) M (?) Huge Daphne red. Needs partial shade. H.M. '37.....\$.50
- ARGUS PHEASANT** (DeForest '48) M (Casa Morena x Tobacco Road) Large, brilliant golden brown. H.M. '48.....Net \$18.00
- ARIANE** (Cayeux '35) M (Chaldee x Fakir) Heavy, over-all patterned plic.....\$.50
- ASHES OF ROSES** (Kirkland '40) M (?) Smoky rose that is different.....\$.75
- ATROUS** (Gage '43) M (Purple sdlg. x Modesta: Cheerio x Rosy Wings) Grand black-purple with red undertone.....\$1.50

AUBURN (Kleinsorge '45) M (Prince of Orange x 258: Far West x Junaluska) Auburn brown-red with blue metallic flush in falls. H.M. '46\$7.50

AURORA DAWN (Whiting '48) M (Veishea x Korea) Delightful blend of rose-pink and gold. Wonderful breeding.....\$3.00

AUTUMN FLAME (H. Sass '41) M & Re (Slrgs. from Morning Splendor x King Tut) Purple. Dependable re-bloomer. Blood for rich colors.\$.75

AZTEC COPPER (Kleinsorge '39) M (Far West x Tan sdg) Huge coppery-tan parent of Tobacco Road, Char-Maize, Honeyflow, Cape Bon, etc. H.M. '40.....\$.75

AZTEC INDIAN (W. Buss '49) M (Brown Thrasher x Gypsy) Rich new blended variegata. Said to be very fine.....\$15.00

AZURE SKIES (Pattison '43) M (Crystal Beauty x Snowking) Delightful light ruffled blue proving a wonderful parent for whites and blues. A. M. '45.....\$1.25

BAGHDAD (Whiting '46) ML (Garden Glory x Golden Spike) Brassy yellow—not too attractive, although wonderful form. Has most potent pollen I know of. Should be useful pollen parent for reds, yellows, coppers and blends\$6.00

BALLET DANCER (Kleinsorge '49) EM (Chamois x Cascade Splendor) Widely flaring apricot-tan. What royal blood!.....Net \$12.00

BALLET GIRL (H. Sass '35) EM (?) Delicate pink-white pallida, diploid.....\$.50

BALMUNG (H. Sass '39) ML (From yel. Plic. Sdgs. — undoubtedly Orloff-Tiffany blood) Broad yellow ground plicata. A.M. '42.....\$.75

BANDED BEAUTY (H. Sass '48) M (48-38: Tiffany x Siegfried) x ((33-38: 128-34: ((Rameses) x (Old Gold x Trojana)) x (Orloff) Yellow ground plicata; useful parent for this color and possibly lemon yellows.\$10.00

BANDMASTER (D. Hall '44) M (Blue Sdlg. x Great Lakes) Big medium blue. Holds up well in adverse weather. H.M. '44.....\$2.00

BATAAN (Kleinsorge '42) M (Lav.-grey sdg. 233: (Purissima v Cameliard x ?) x (Aztec Copper) Somewhat poor grower, not unlike Cape Bon in coloring. Should be a fine parent\$2.00

BELLE AMIE (J. Ohl '49) EM (Tiffany x Golden Fleece) Clean lemon-yellow, lighter area in falls. Form could be better, for it harks somewhat to Tiffany's shape. H. C. '48. Name means Beautiful Friend.....\$7.50

BELLERIVE (Benson '50) See 1950 Introductions. H.C. & C. of C. '49.....\$10.00

BELMONT (T Williams '38) M (Souv. de M. Gaudichau x Ann Page: trojana x Caterina) Good, dependable blue. Fine blood. Fragrant\$.50

BERKELEY BLUE (Salbach '44) EM (Purissima x Blue Sdlg.) Another splendid Purissima seedling of medium height. Fine breeding possibilities\$1.00

BERKELEY GOLD (Salbach '42) M (Radiant x Sdlg.: Happy Gift x Natoma) A splendid rich yellow. Blood here for reds, coppers. A.M. '46\$1.00

BERTHA GERSDORFF (J. Sass '42) M (Yel. Plic. x Yel. Plic.) Odd yellow and rosy-purple blended into a fancy. Not unlike Dawn Overlay. Plant these with lemon yellows. Blood for lemons, variegatas and plics.\$1.00

BEVERLY (Lapham '39) M (No-We-Ta x sdg.: Midgard x Aphrodite) Pink, diploid.....\$.35

BILLET-DOUX (G. Douglas '47) M (Calling Me: Purissima x Opal Dawn) x Caroline Burr) Small, blue, border iris.....\$3.00

BILLOWY SEA (Norton '44) M (Great Lakes x Shining Waters) Bluer sister to Sylvia Murray. Fine parent.....\$1.00

BLACK AND GOLD (Kleinsorge '43) M (Involving: Yakima, Cameliard, Burning Bronze, Purissima, Jean Cayeux, Crown Prince) Rich, contrasting colors\$1.00

BLACK BANNER (Nicholls '47) M (Smolder x The Black Douglas) Tall, rich dark purple. H.M. '47\$2.50

BLACK FOREST (Schreiner '45) M (Dymia x Ethiopie Queen) THE BLACK! Everyone will, eventually, want to own this fine dark iris. A real breeder's achievement. A.M. '48\$3.50

BLACK HAWK (Schreiner '41) E (Lutin (D.B.) x Black Wings) A true intermediate, and a fine dark purple.....\$.75

BLUE CROWN (Washington '45) M (?) Large blue-white self\$2.00

BLUE FRILLS (B. Stephenson '46) M (Aline x Missouri) Deep azure blue self. Blue-tipped beard\$3.00

BLUE GLOW (Nicholls '45) ML (West Point x Mata Hari) Improved West Point. Highly praised. Scarce. H.M. '48.....\$3.50

BLUE PETER (White '36) EM (Acropolis x Modoc) Rich purple bi-color.....\$.40

BLUE RIM (C. Larsen '48) M (Purissima x Alameda) x (Aldura) Very large, round, clean blue and white plicata. Judged "Queen of the Show" Salt Lake City iris show 1949. H.M. '49. Tops.....\$10.00

BLUE RHYTHM (Whiting '45) M (Annabel x Blue Zenith) Superb blue. A wonderful grower everywhere. All blue blood! Runner up to 1949 Dykes Medal winner. Another top variety. A.M. '47.....\$4.00

BLUE SHIMMER (J. Sass '42) M (65-35 x Sdlg.: Blue Monarch x Blue Hill) Clean blue and white plicata. Should be a useful parent for this color as well as blues. A.M. '44\$1.50

BLUE SPIRE (Milliken '39) EM (Purissima x Wistaria) Fine blue, and look at the pedigree! Parent of Mirror Lake.....\$1.00

BLUE VALLEY (K. Smith '47) M (Lake George x Great Lakes) Unquestionably one of the bluest. In great demand. A.M. '49.....\$10.00

- BLUE VIOLET** (T. Craig '48) M (San Diego x Sierra Blue) Massive, deep, rich violet-blue\$7.50
- BLUE ZENITH** (Whiting '42) M (Blue Hill x Sierra Blue) Good blue parent of Blue Rhythm\$.75
- BONANZA** (J. Sass '39) M (El Tovar x Sdlg.: Jumbo x King Tut) Small yellow plicata. Parent of Rare Marble.....\$.50
- BRIARWOOD** (D. Hall '47) M (Pink blend sldg. x Lullaby) Deep pink blend, fine substance\$2.00
- BRIGHT LIGHTS** (Schreiner '46) M (Naranja x Siegfried) Brighter contrast than Tiffania. Should be useful for plicatas and oranges\$3.00
- BRIGHT MELODY** (Snyder '41) M (Melchoir x Pioneer) Rich mulberry purple. Smaller, but heavier substance than Inspiration. H.M. '43\$1.00
- BRILLIANT AMBER** (Salbach '47) M (?) Light amber blend. Fades. H.M. '47.....\$5.00
- BRITTANIA** (Tompkins '49) M (Apex x Sdlg.: Cape Bon x Redward) Red worthy of its fine breeding\$20.00
- BRONZE BROCADE** (Nesmith '48) M (Sequatchee x Tobacco Road) Warm blend of copper, red and brown. Scarce. H.M. '48\$15.00
- BRONZED COPPER** (Kleinsorge '43) M (Sister to Auburn) Copper flushed metallic lavender. Parent of Lady Albright.....\$1.00
- BRONZE IMAGE** (Kirkland-Williams '40) M (Sdls.) Reddish-brown\$.50
- BROWN STAIN** (Muhlestein '48) M (Grand Canyon x Stained Glass) Rich henna-brown self. Everyone seems to like the flower, but not the name. A larger, richer flower than most in this class. Difficult pod parent. Pollen fertile. C. of C. '47.....\$5.00
- BROWN THRASHER** (Kirkland '41) M (Copper Lustre x ?) Light metallic Golden brown. A.M. '43\$1.25
- BRYCE CANYON** (Kleinsorge '44) ML (Mexico x Tobacco Road) Copper, auburn-brown. Wonderful parent both ways. Runner-up for 1948 Dykes Medal.....\$3.50
- BURMESE GOLD** (Whiting '45) ML (Sdlg.: Happy Days x E. B. Williamson) x (Prairie Sunset) Smooth, delectable apricot, gold and buff blend. A wonderful parent.....\$3.00
- BURMESE RUBY** (Muhlestein '49) ML (Red Valor x Red Gleam) The name gives its coloring—a complete self with orange-yellow beard. Most reds are bi-colors, this a red self—with enamel-like finish—not a velvety variety. It has possibilities in hybridizing and I have used it greatly the past two years. It will sunburn and the plants do not make large rhizomes or quite enough green foliage for the height and size of the plant. In spite of these faults it will please. H.C. 1948. Limited Stock.....**Net \$10.00**
- BURNISHED GOLD** (Kirkland '40) M (Aztec x Midas) x (Yel. Sdlg. x W. R. Dykes) Yellow with copper undertone. Fine in Calif.\$.50
- BUTTERCUP LANE** (D. Hall '41) EM ((Rameses x Jean Cayeux) x (Salutation)) x (Golden Hind) Clean yellow with rich orange beard. H.M. '40.....\$.50
- CAHOKIA** (Faught '48) M ((4E 1: Purissima x B 31: Purissima x Santa Barbara) x (B 31 x Santa Clara)) Light blue. Fine parent with Snow Flurry or other Purissima derivatives. H.M. '49**Net \$17.50**
- CALIFORNIA PEACH** (Salbach '41) M (Natomia x Sldg.: Mary Geddes x Miss Calif.) Light peach blend. H.M. '41.....\$.50
- CALIFORNIA TREK** (White '41) M (Incognito x Chosen) Delightful light primrose yellow. Wide!\$1.00
- CAMPFIRE GLOW** (Whiting '47) EML (Amaranth x Three Oaks) Stunning ruby heavily overlaid with brilliant copper. Rich as a classical tapestry. H.M. '47.....\$15.00
- CANYON ROAD** (Kleinsorge '46) M (Oregon Trail) x ((Old Parchment) x (Tuscany Gold x Rameses)) Big copper-tan blend.....\$3.00
- CAPE BON** (Tompkins '45) M (Aztec Copper x Veishea) Highly finished red with copper undertone. Superb parent. H.M. '45.....\$10.00
- CAPTAIN WELLS** (P. Cook '41) ML (Same bloodlines as Action Front) Flaring Maroon-black. Needs partial shade. A Honey. A.M. '43.....\$1.00
- CARLSBAD CAVERNS** (Wilson '46) M (National White x Spun Gold) Standards lemon-yellow, falls white edged yellow. Huge\$2.00
- CAROLINE BURR** (K. Smith '40) M (Easter Morn x M. M. Lassilly) Large cream with greenish cast. Easy parent. Seed germinates early and well. A.M. '42.....\$1.00
- CARVED IVORY** (Essig '36) EM ((Calif. Blue) x (Argentina) x Conquistador) x (Miss Willmott x Sherbert)) x (W. R. Dykes) Clean ivory-cream\$.50
- CASA MORENA** (DeForest '43) M (Morning Splendor, Germain Pertheus, Alta Calif, Rubeo, Grace Sturtevant) (Prairie) x (Prairie Sunset) Lively Burnt Sienna and Chestnut. Fine parent for rich things. A.M. '46.....\$2.00
- CASCADE SPLENDOR** (Kleinsorge '45) ML (Mexico x Goldbeater) Ruffled pinkish apricot blend. Wonderful parent. A.M. '47.....\$3.50
- CELESTAR** (C. Larsen '50) M (See 1950 Introductions) H.C. '49.....\$15.00
- CHAMOI** (Kleinsorge '44) M (Mexico x Tobacco Road) Simply stunning light golden tan. Top new breeder. A.M. '48.....\$5.00
- CHANTILLY** (D. Hall '45) ML (Maiden Blush x pink Sldg.) Heavily ruffled orchid pink blend. Producing this type of ruffling in its seedlings, with heavy substance. A.M. '47\$3.50
- CHARLIE GERSDORFF** (Lapham '48) M (Copper Rose x Red Gleam) Fiery bi-orange red. Swell breeding!\$5.00

CHAR-MAIZE (D. Lyon '49) M (Snow Flurry x Aztec Copper) Rich yellow with strong undertones of chartreuse. Heavy substance. H.M. '49\$22.50

CHERIE (D. Hall '47) EM (42-07: Golden Eagle x 39-62) x (Fantasy) Beautifully formed, heavy subenced pink. Quality! A.M. '49.....\$18.00

CHICORY BLUE (G. DOUGLAS '42) EM (Shining Waters x Stella Polaris) Nice blue. Blood here for this color, violets and whites. H.M. '42\$2.50

CHIEF POKING FIRE (DeForest '42) M (Sldg. Alta Calif. x Jean Cayeux) x (E. B. Williamson) Swell red and proving fine parent \$1.00

CHINA MAID (Milliken '36) EM (Mauna Loa x Dauntless) Delicately colored pink blend. Delightful perfume. A.M. '39.....\$.75

CHIPPEWA (Salbach '43) M (Orloff) x ((Seduction x Comstock) x Alta Calif.) Lightly marked clear yellow plicata.....\$.50

CHIVALRY (J. Wills '44) ML (Missouri x Great Lakes) Large, ruffled dark blue. Dykes Medal '47\$7.50

CHI-YUN (DeForest '47) EM (Snow Flurry x Azure Skies) Similar in shape to Glistenglow. Not tall. Wonderful parent for blues and Whites.\$3.00

CHOIR BOY (Schriener '47) L (King Juba x Dorothy Dietz) x (Cantabile) Nicely formed Amoena.\$2.00

CHOSEN (White '37) M (Mirasol x Purissima) x (Rubeo) Large clean yellow. Good parent. Fertile pollen on the Mohr family.....\$.60

CHRYSOLITE (Milliken '41) EM (Easter Morn x Lady Paramount) Large cream, rich orange beard. Difficult parent.\$1.00

CITY OF LINCOLN (H. Sass '37) L (Al-lu-we x ?) Long the leading Variegata. Still fine although Staten Island replaces it. A. M. '39\$.50

CLARET VELVET (Weed '41) M (?) Rich Claret-purple. No Pollen and has anyone ever induced seed production from "it"?.....\$.40

CLOTH OF GOLD (Whiting '45) M (Golden Hind x Golden Spike) Tall, well branched rich yellow and a good performer. H.M. '47 \$2.00

CLOUD CASTLE (Graves '44) M (Sensation x Gloriole) Wide light blue. Fine parent of Helen McGregor. H.M. '44\$3.00

CLOVELY (Tobie '40) M (Easter Morn x Rose Domnion) Odd sea-foam green. Should be useful toward greens.....\$1.25

COLORATURA (DeForest '46) M (E. B. Williamson x Prairie Sunset) Russet, golden orange self. Should be a fine parent for rich blends.\$2.00

COOL LEMONADE (Muhlestein '47) EM (Electra x Bonanza) Pale, clean, lemon-yellow self even to the beard. Starts the tall bearded season together with Mount Timp. For the front of the border. One of my "Pets" \$5.00

CONGO PRINCESS (Whiting '47) M (Rubeo x Smolder) Dark purple with red undertone.\$1.00

COPPER CASCADE (Kleinsorge '40) M (Treasure Island x Far West) Wide, rich brown. Won 1st in its class at Salt Lake City last spring. lighter Tobacco Road.....\$.50

CORDOVAN (Kleinsorge '46) M (314 x Bryce Canyon) Rich coppery brown. Will surely be a fine parent. H.M. '47.....\$2.50

CORITICA (H. Sass '42) ML (50-34: 48-21 x Amitola) x (Tiffany) Cinnamon-brown marked yellow plicata. Sister to Ruth Pollock we like better.\$1.00

CORNFLOWER (Whiting '48) M (Sea Blue x Great Lakes) Really blue! Tall, well branched stalks holding medium sized flowers. Swell!\$3.00

CORONADO (Tompkins '45) EM (Flora Campbell x Golden Spike) Bright, wide early yellow. Wonderful blood here for reds, blends and yellows.\$2.00

CO-STAR (White '47) E (Prob. Symbol x ?) Coppery-orange bi-color.\$1.00

COURTIER (D. Hall '47) EM (42-10: Golden Eagle x 39-62) x (42-05: 40-34 x 39-62) Really PINK, and a delightful bit of "fluff." One of the best new parents in this color.....\$6.00

CREAM GOLD (Muhlestein '47) M (Fort Knox x Dr. Loomis' "Type Dore" a Sea Shell sdg.) Yellow Standards, white falls edged yellow. Sometimes flecks due to "Dykes" blood. The pollen parent of Mrs. Crosby's Song of Songs. Blood here for pinks.....\$.75

CREAMO (Fitzpatrick '45) EM (Sdlg. x Golden Madonna) Big cream—not unlike Amandine, but earlier, so has a place in the iris garden.\$1.00

CYNTHIA ANN PARKER (Whiting '47) EM (Shining Waters x Gloriole) Blue with yellow beard. Good blood for blues and whites\$1.00

DAMARINE (Gage '39) M (Dauntless x Red Sdlg.) Dark red self. H.M. '41.....\$.50

DANUBE WAVE (Schreiner '47) M (Anitra x Narain) Big, full, ruffled rich medium marine Blue. H.M. '48.....\$5.00

DAWN OF GOLD (Salbach '40) L (Bronze Beacon x San Francisco) x (Golden Majesty) Very late blooming yellow. Plicata blood here.\$.75

DAWN OVERLAY (Muhlestein '47) M (Came-lina x City of Lincoln) Flaring yellow brushed over with cinnamon-tan. Similar to Bertha Gerdsoff.\$1.00

DAYBREAK (Kleinsorge '41) M (Far West) x (Jean Cayeux x Far West) Big coppery-pink blend. Produces smooth seedlings. A. M. '43\$1.25

DEB'S DELIGHT (D. Hall '42) M (?) Big light peach-pink. Good.....\$1.50

DEEP VELVET (Salbach '39) (San Diego sdg. x Modoc) Rich enameled purple. A.M. '42.\$.75

DESERT SONG (O. Fay '46) M (Snow Flurry x Golden Eagle) Big wide ruffled cream. Quality all over. Should be a wonderful parent for many collors: whites, creams, laven-

- ders, yellows, and shell pinks. A. M. '49.\$7.50
- DESERT SUNSET** (Milliken '47) EM (Undoubtedly China Maid blood) Delightful rich new blend.\$15.00
- DISPLAY** (Grant '42) M (The Red Douglas x Christabel) Like its pod parent a bit difficult to seed. A nice red-purple. H.M. '42.\$1.00
- DISTANCE** (P. Cook '46) ML (Castalia x Santa Barbara) x (Great Lakes) Smooth blue effective in clumps. A.M. '49.\$7.00
- DIVIDEND** (G. Douglas '44) L (Sundance x Glen Ellen) Good late yellow. This, Golden Symphony and Dawn of Gold are really late and would make a fine trio.\$1.00
- DIXIE BELLE** (Milliken '48) E (White 1937-10 x Lav. 2270-32) Heavily ruffled white—not from Snow Flurry, although it looks as though it should be.\$2.50
- DOMINION REX** (Kirkland '36) M (Morning Glory x Dominion) Rich bi-blue. Should produce neglectas.\$.35
- DREAMCASTLE** (P. Cook '43) M (From: Geo. J. Tribolet. Dominion, Windham, Mme. Cheri, Morning Splendor, Susan Bliss and Rameses) Extremely wide orchid. Said to be a fine parent. A.M. '48.\$5.00
- DREAM GIRL** (D. Hall '44) M (40-34: 38-26: x 35-40: Dauntless x Rameses) x (39-62: (3601: W. R. Dykes x Dolly Madison) x (Morrocco Rose) Small clean pink sister to Overture and Premier Peach. Nice.\$3.00
- DREAMLAND** (Snyder '45) M (Trojana x Pioneer) x (Ricardi x Moa) Big hollyhock red said to be a fine parent.\$2.50
- DRUM MAJOR** (G. Douglas '47) M (Display) x (((Francesca x Jeb Stewart) x (Soldano)) x (Gallant Leader))) Big bold new red. Good blood!\$8.00
- DUSKY NIGHT** Whiting '48) M (Missouri x Mata Hari) x (Sable) Dark purple.\$1.00
- EASTER BONNET** (Maxwell-Norton '44) M (Morrocco Rose x Alastor) Rodenite pink edged gold. H.M. '46.\$1.00
- EASTER MORN** (Essig '31) M (Calif. Blue) x (Argentina x Conquistador) Flaring white. Splendid parent both ways. May be useful for "greens." A.M. '33.\$.40
- EASTER SUNRISE** (C. Rees) EM (Snow Flurry x Happy Days) Big creamy yellow.\$1.00
- EBONY ECHO** (Tompkins '48) M (Cape Bon x Casa Morena) H.M. '49.\$4.00
- EBONY QUEEN** (Sass Bros. '47) EM (Dark sdlg. x Sable) well branched dark purple. H.M. '47.\$4.00
- EDITH RORKE** (K. Smith '46) M (Valentine x Florentine) Precisely stitched blue and white plicata. H.C. '45.\$4.00
- EDWARD LAPHAM** (Lapham '42) ML (Omaha x Jerry) x (Rubeo) Medium sized, tall red.\$2.00
- EDWARD OF WINDSOR** (Morris '45) M (Sdls from: Sacramento, Marry Geddes. Golden Hind) Odd pink break. Useful breeder.\$10.00
- ELLA CALLIS** (H. Sass '42) M (2-34): perhaps Naranja blood) x (32-28: Midwest Gem x Prairie S.) Yellow standards, falls orange. Sunburns in full sun.\$1.50
- ELMOHR** (Loomis '42) M (Wm. Mohr x red sdlg. H 22) The rich large Mulberry everyone wants. Dykes Medal '45.\$1.00
3 for \$2.00
- EL PASO** (Kleinsorge '49) (Tobacco Road x Goldbeater) Rich, lively golden brown.\$7.50
- ELSA SASS** (H. Sass '39) EM (Tiffany x Orloff) The first clean lemon yellow. Fine parent for this color and plicatas. A.M. '41.\$.50
- EPISODE** (White '45) E (Naranja x Fiesta) Colorful light blend. Blood here for Oranges.\$1.00
- ESQUIRE** (Lothrop '45) ML (L 8-40 x Brunhilde) Accent on form and branching. A rich medium-deep purple. H.M. '47.\$5.00
- ESTATE** (C. Benson '49) M (Birchbark x Bruno) Superbly substantanced wide chaste white self, semi-flaring. 28 inches.\$5.00
- EVENGLOW** (Clevenger '48) M (?) Large clear light violet self. Nice.\$5.00
- EVENSONG** (Frazee '50) M (N. J. Thomas x Sdlg.) See 1950 introductions.\$6.00
- EXTRAVAGANZA** (G. Douglas '44) L (Adios x Cortez) Cream standards, red-purple falls. No pollen. Somewhat difficult pod parent. Proving an exciting parent for Amoenas. A.M. '47.\$6.00
- FAIR DAY** (McKee '49) M ((Miobelle x Misty Rose) x (Moontide)) x (Moontide) yellow and white Amoenas. H.M. '49.\$.50
- FAIR ELAINE** (Mitchell '38) EM (Happy Days x Calif. Gold) Yellow bi-color. Easy grower fine performer. A.M. '40.\$5.00
- FAIRY FOAM** (Mitchell '48) M (?) Delicately marked plicata. H.M. '48.\$5.00
- FALL DAYS** (K. Smith '47) M (Matula x Orange Glow) Brown blend. H. M. '47.\$12.50
- FANTASY** (D. Hall '47) EM (40-97: Lullaby x 35-40: Dauntless x Rameses) x (39-62: See, Dream Girl) Nicely formed orchid with tangerine beard. A.M. '49.\$15.00
- FAR WEST** (Kleinsorge '36) M (Mme. Cecile Bouscant x Dolly Madison) x (Pres. Pilkington) The tan blend that gave such remarkable breaks in the hands of this master hybridizer. H.M. '37.\$.40
- FAVORI** (Cayeux '34) M (Marc Aureau x Cardinal) Rich grape purple. Acts like a diploid.\$.35
- FIRECRACKER** (D. Hall '43) M (Orloff x Elsa Sass) Brilliant red-marked yellow plicata. Fine parent. H.M. '43.\$3.00
- FIRE DANCE** (O. Day '47) M (By two sister seedlings to Firecracker) A fine red plicata. H.M. '47.\$7.50
- FLAMELY** (P. Cook '43) M (E. B. Williamson x Sdls.) Silken red with orange undertone. H.M. '44.\$1.00

FLORA CAMPBELL (Hill-Son '40. M (Sdls. from King Tut and El Tovar lines) Fine dependable red. H.M. '40.....	\$.50
FLORADORA (D. Hall '47) M (Sister to Courtier) Delicate good sized pink with rich beard	\$5.00
FLORA ZENOR (J. Sass '42) M (Dore x ?) Pink break. Clumps or enmass. Has produced Saluskin, Pink Lace and Peach Parfait. Its seedlings, however, are generally small, and unclear, and have a tendency to produce these qualities. A.M. '44.....	\$.75
FLORENTINE (Cayeux '37) M (Chaldes x Sigurd) heavily dotted and marked white plicata. Really fine. A.M. '40.....	\$.50
FLURRY MOHR (C. Rees '50) EM (Snow Flurry x Capitola) See 1950 Introductions.	\$5.00
FLUTED ARROW (M. Tharp '46) M ((Zasu x Susan Bliss) x (Midwest)) x (Christine Gray) Nicely ruffled delicate diploid plicata.	\$1.50
FORT KNOX (Milliken '41) EM (Sungold x Chosen) Light yellow with delightful form. A.M. '44.....	\$1.00
FORT TICONDEROGA (K. Smith '48) M (Sister to Fall Days) Rich tones of copper and red. Stunning.....	\$15.00
FORTUNE (Kleinsorge '41) M (Old Parchment) x ((Tuscany Gold x ?) x (Rameses)) Coppery golden yellow. Swell parent.....	\$.75
FORTUNE'S FAVOR (DeForest '44) M (E. B. Williamson x Fortune) Big tan blend. One of the Parents of DeForest's "Horned Toad."	\$2.00
FRANCELLIA (McKee '45) M (Golden Majesty) x (Helios x Janet Butler) good yellow similar in sheen to Spun Gold. H.M. '44	\$3.00
FRANK ADAMS (Lapham '37) M (Rameses x Jerry) Big showy rosy buff variegata. Will produce Shell pinks when bred with them. A.M. '40	\$.50
FRANK DRAKE (Grant '47) ML (Snoqualmie x Golden Treasure) Perfection of form and substance. Yellow standards white falls flushed chartreuse around beard.....	\$4.00
FRANKLIN B. MEAD (Mead-Reidle '36) M (Los Angeles x True Charm) Similar to Los Angeles. Very fertile pollen on the Mohrs.	\$.50
FROSTY BLUE (Whiting '41) M (Shining Waters x Gloriole) Big delicate blue. Wonderblood for hybridizing for blues and whites	\$1.00
GALLANT LEADER (Wiesner '39) M (Morning Splendor x Germaine Perthuis) x (Depute Nomblot. Redder Depute N. Fine. H.M. '39.	\$1.00
GALLANTRY (Whiting '45) M (Winneshiek x Mata Hari) Quite reminiscent of Chivalry. Nicely ruffled deep blue.....	\$4.00
GARDEN FLAME (H. Sass '41) M (83-34: sdls from King Tut) x ((Miss Aravilla) red. A.M. '43	\$1.00
GARDEN GLORY (Whiting '43) M (The Red Douglas x Garden Magic) Marvelously smooth, highly finished Bordeaux red. Difficult pod, but easy pollen parent. A.M. '47	\$4.00
GARDEN MAGIC (Grinter '36) ML (Wotan x Ella Winchester) Smoothly finished red. A wonderful pollen parent, difficult to seed. H.M. '37	\$.75
GAY ORCHID (Muhlestein '49) EM (Nylon x Golden Eagle) Big flaring Orchid self with tangerine beard. Remarkable parent for this color, Salmons, blends and pinks. H.C. '47, H.M. '49	\$10.00
GAY SENORITA (Salbach '44) M ((Alta Calif. sdlg. x Miss Calif.) x (Happy Gift sdlg.) Unusual variegata, falls lined with chestnut. H.M. '45	\$1.50
GEMS OF TOPAZ (Wilson '48) M (Prairie Sunset x Tobacco Road) Described as a new color break in Topaz. Heaviest substance.	\$6.00
GENERAL MAC ARTHUR (National '43) M (?) Huge creamy yellow.....	\$.75
GENERAL PATTON (Kleinsorge '47) ML (310 x Bryce Canyon) Bright red-copper H.M. '47	\$10.00
GENTLE FLORENCE (C. Taylor '47) EM (Snow Flurry x Violet Symphony) Ruffled blue-white. Splendid parent. H.M. '47.....	\$5.00
GILT EDGE (Whiting '41) M (Happy Days x Matula) Yellow bi-color. Blood here for many colors: Blends, yellows, whites, plicatas, pinks.	\$1.00
GLAD TIDINGS (Whiting '47) M (Amitola x Copper Piece) x (Amaranth) Heavy Wax-yellow. Look at the rich blood here! No wonder it produces!	\$3.00
GLISTENGLOW (Muhlestein '49) EM (Snow Flurry) x (Genevieve Serouge x Mount Cloud) Heavy substanted white, wide, full and ruffled. Poorly branched, but the flowers are magnificent. H.C. '47.	\$10.00
GLORIOLE (Gage '33) EM (Souv. de L. Michaund x Queen Caterina) One of the most important blue and white parents of two decades. Still a grand light frosted-blue. A.M. '35.....	\$.50
GLORY (Kinish '47) EM (Shining Waters x Gudrun) Lovely big light yellow.....	\$3.00
GOLDBEATER (Kleinsorge '44) M (Rebellion x Naranja) x (Far West) Rich low-growing yellow. Wonderful parent for blends, yellows and oranges. H.M. '45.....	\$2.00
GOLDEN EAGLE (D. Hall '42) M ((38-26: 36-11 x Morocco Rose—36x11: W. R. Dykes x Dolly Madison)) x (Prairie Sunset) I consider this a most remarkable parent. For smoothness and form these qualities are tops. Produces blends, yellows, pinks and Orchids with tangerine beards.....	\$1.00
GOLDEN EPAULETS (Grant '46) M (Sunday Best x Chosen) Cream-yellow with deeper gold "epaulets" on hafts.....	\$2.50

- GOLDEN FLEECE** (J. Sass '40) M (Siegfried x Dore) Light lemon yellow standards falls white bordered lemon. Blood here for many colors. A.M. '42.....\$1.00
- GOLDEN HIND** (Chadburn '34) EM (Gold Imperial x W. R. Dykes) Flaring brilliant clean yellow. Dykes Medal. England '34.....\$.35
- GOLDEN MADONNA** (Essig '36) EM (Y 966A x W. R. Dykes) Big, clean light bi-yellow.....\$1.00
- GOLDEN RUFFLES** (C. Taylor '46) M (Margaret Bond: Purissima, Mirasol, Rubeo, Naranja) x (Vivacious—a sdg. of Happy Days.) Delightfully clean, brilliant full yellow. Many show honors. Difficult pod parent, no pollen. A. M. '49.....\$5.00
- GOLDEN RUSSET** (D. Hall '46) M (Yel. Sldg: Invictus x 38-52) x (Golden Eagle) Huge Russet self. Wonderful show specimen. H. M. '47.....\$5.00
- GOLDEN SPANGLE** (Cassebeer '44) EM (Evolution x Happy Days) Brighter, yellower Golden Fleece-type. H. M. '44.....\$.50
- GOLDEN SYMPHONY** (Horton '44) L (Plurabelle x Rameses) Brilliant yellow standards, falls lavender-blue edged yellow. Stunning and the last to put on its colorful show. Destined, surely, to be very popular.....\$7.50
- GOLDEN TREASURE** (Schreiner '36) M (Pluie D' or x W. R. Dykes) Light bi-yellow. Always in demand. A.M. '38.....\$.50
- GOLD SOVEREIGN** (first named Gold Nugget) (Whiting '49) M (Ola Kala x Rocket) Vivid orange-yellow self. What blood! Should be tops for orange breeding.....\$10.00
- GOLD RUFFLES** (Muhlestein. A bit coarse at hafts. Proving a remarkable parent, and its pink grandchildren are "out of this world." H.M. '48.....\$5.00
- GOLD RUSH** (Essig '46) EM (Golden Hind x sdg.) Better Golden Hind.....\$4.00
- GOOD NEWS** (Kleinsorge '46) M (Mexico x Tobacco Road) Good news, indeed, in the richest golden brown. Glistens! H. M. '47.....\$3.00
- GRAND CANYON** (Kleinsorge '41) M (Treasure Island x Far West) Rich coppery plum blend. Parent of Brown Stain and other good seedlings. A.M. '44.....\$.75
- GREAT LAKES** (Cousins '48) M (Dominion x ?) x (Conquistador x ?) Proving a remarkable parent for blues. Long at the top of the Judges' Symposium. Dykes Medal '42.....\$.75
- GREENGLOW** (Muhlestein '49) M (Sister to Glistenglow) Large, full, somewhat ruffled white with strong greenish-chartreuse cast. H.C. '48.....\$10.00
- GULF STREAM** (O. Fay '46) EM (Dymia x Narain) Very dark blue, almost to the "black" side. Rich and commanding. With Storm King, Night Life, Night Spot and other new blacks should produce something. H. M. '46.....\$5.00
- GYPSY** (Kleinsorge '45) L (Rebellion x Naranja) x (E. B. Williamson) A wonderful rich variegata. Fine blood for many colors including reds and oranges. H.M. '45.....\$1.50
- GYPSY BARON** (Schreiner '42) M (Claribel x Mme. Louise Aureau) Heavily marked purple plicata. Fine parent.....\$1.00
- GYPSY MAID** (Gage '45) ML (Arethusa x Red Bonnet) Surprising in form and substance. Not unlike Lancaster, but I like it better. Good blood here for reds and rich blends.....\$1.00
- GYPSY ROSE** (Whiting '46) M (Amaranth x Three Oaks) Tall, well branched rich red-copper blend with blue flush. Can't miss as a fine parent. We hear of one from Elmohr by this that is exciting. H.M. '49.....\$6.00
- HALLELUIAH** (Welch '46) EM (Gudrun x Easter Morn) White. Put it to blues like Great Lakes and Cloud Castle for fine smooth blues and whites.....\$3.00
- HARRIET THOREAU** (P. Cook '44) M (Sister to Dreamcastle) Clean Orchid-pink. H. M. '45.....\$1.50
- HARMONETTA** (White '45) EM (Probably Purissima blood) Fine smooth blue. Would like to see its seedlings by Chivalry, Helen McGregor, Mirror Lake, Blue Rythm, or Cloudcastle.....\$3.00
- HAUGHTY** (Welch '46) M (Calif. Gold x Easter Morn) Swell cream! Will, surely, produce smooth seedlings in creams, yellows, blues and whites.....\$4.00
- HEIGHO** (T. Craig '49) EML (Purissima x Capitola) Wide smooth Bradley-violet. H.M. '49.....Net.....\$25.00
- HELEN FITZGERALD** (H. Thorup '48) ML (Purissima x Wasatch) x ((Dolly Madison x W. R. Dykes) x (Souv. de M. Gaudichau x Ricardi)) Huge Lobelia-violet self. A leading judge in Missouri asked why we didn't give Helen F. a bigger buildup. With a wider distribution we think it will speak for itself. H.C. '47 H.M. '49.....\$12.00
- HELEN MCGREGOR** (Graves '46) M (Purissima x Cloud Castle) The Classic light blue 1949 Dykes Medal Winner. Need we say more!.....\$8.00
- HER GRACE** (DeForest '43) M (Purissima) x (Alta Calif. x King Midas) Hortense violet. Fine parent for many colors.....\$1.00
- HERITAGE** (D. Hall '49) M (Tally Ho x Courtier) Clean flamingo pink in a deeper shade than Hit Parade or Cherie. H. M. '49.....Net.....\$15.00
- HI TIME** (D. Hall) M (42-07: sister to 42-10) x (Premier Peach).....
- HIT PARADE** (D. Hall '47) M (Sister to Foradora. Large flamingo pink.....\$6.00
- HONEYFLOW** (Tompkins '44) M (Aztec Copper x Veishea) Smooth meadowsweet rose brushed coper. Proving a remarkable parent. Use with large blends for good things. Crossed with sister to Sunset Road gave me Utah Sunset—and other stunning blends. H. M. '46.....\$5.00

HOOGIE BOY and HOOGSAN See Hybrids)
HOWARD WEED (Kleinsorge '47) M (314 x Bryce Canyon) Light red-brown self.\$3.50
HOWDY (Clevenger '46) M (Gudrun x Buechley Giant) Heavy substandard, large blue-white. Blood here for smooth blues and whites.\$.75
HURRICANE (T. Craig '49) EM (Purissima x Capitola) Large, heavy substandard powder blue. Sometimes flecked. H.C. '48 Net \$20.00
ICY BLUE (Weed '40) M (?) Good light blue.\$.50
ILLINOIS (D. Hall '49) M (Two sdls.) Large creamy yellow self. H.C. '46.\$10.00
ILLINOIS SUNSHINE (Faught '46) EM (Happy Days x Jean Cayeux) Very large, clean, brilliant yellow. Swell. H.M. '49\$3.50
IMPERIAL POMP (H. Schirmer '49) M (Valor x Ashes of Roses) Rich purple self. Beard tipped purple. Stunning.Net \$17.50
INDIANA NIGHT (P. Cook '42) ML (Valor x Sable) Large blue-purple. A.M. '44 \$2.50
INDIAN HILLS (Grant '35) M (Pioneer x Cardinal) Dependable rich purple.\$.40
INNOVATION (D. Hall '45) M (Claribel x Sachem) x (Orloff) Yellow plicata neatly trimmed in rose. H.M. '47\$1.50
INSPIRATION (Stevens '37) EM (Pioneer x Magnifica) Simply huge mulberry-pink. Always a sell out.\$1.00
IVORY CHARM (Whiting '47) M (Priscilla x Baghdad) Wider Golden Treasure type. Should be useful for creams, whites, reds and yellows.\$2.00
JAKE (J. Sass '43) M (Tiffany x Maid of Astolat) Cream white with lemon cast and beard. Splendid and in great demand.\$.60
JASPER AGATE (Mrs. T. Williams '43) M (Junaluska x Consort) x (Cheerio) Brilliant low growing red-copper. H.M. '44.\$2.00
JOAN LAY (Chadburn '39) ML ((Purissima x Gold Imperial) x (Golden Hind) Clean yellow sister to Mable Chadburn. A.M. England '41\$.75
JULIET (Kleinsorge '46) EM (269 x Prairie Sunset) Flame-copper and salmon. Blood here for brilliant things used with Kleinsorge, Sass, Whiting or Tompkins' blends. H. M. '47\$3.00
KANSAS CREAM (C. H. Lewis '49) M (Crystal Beauty x Calif. Gold) New cream said to be lovely in clumps.\$6.00
KANSAS INGLESIDE (Hill-Son '39) Re (King Tut x Autumn Haze) Rich red said to have a re-blooming tendency. H.M. '47.\$.75
KATHERINE FAY (O. Fay '45) M (Gloriole x 39-3) Large, waved, warm white. Wonderful parent with Snow Flurry, Helen McGregor, Mirror Lake, etc. A.M. '47\$2.50
KLONDYKE GOLD (Kirkland-Williams '41) M (Marvelous x ? : prob. W. R. Dykes blood) Big showy yellow. Excellent grower.\$.75
KOREA (Whiting '48) ML (Arab Chief x Cedar Rose, correction of breeding!) Rich red-brown self Swell blood here for rich things!\$5.00

LADY ALBRIGHT (Muhlestein '50) ML (Veishea x Bronzed Copper) C. of C. '49 \$15.00
LADY BOSCAWEN (Graves '46) EM (Purissima x Cloud Castle) Lovely white sister to Helen McGregor. Should be an important parent as well as a lovely garden subject. A.M. '48\$6.50
LADY DOZIER (Dozier) M (Ormohr x Brunhilde) Guest. Pedigree of great interest.
LADY LOUISE (Graves '47) ML (Snow Carnival x Katherine Larmon) Colonial buff standards, white falls bordered Colonial buff. H.M. '47\$10.00
LADY MOHR (Salbach '44) M (King Midas x Alta Calif. x (Capitola) A.M. '46.\$2.50
LADY NAOMI (O. Fay '41) M (Violet Crown x Shining Waters) Heavily marked and dotted plicata. H.M. '42\$.50
LADY OF SHALOTT (Schreiner '42) M (Rosy Asia x Mme. Louis Aureau) Delicately marked pinkish plicata, and a fine parent for this color.\$.75
LA GOLONDRINA (Tompkins '46) EM (Brunhilde x Lilimani) deep purple somewhat similar to Gulf Stream. Rich blood.\$4.00
LAKE BREEZE (O. Fay '45) M (Gloriole x Ballet Girl) Lovely light blue of real quality. No pollen. Difficult to seed. H.M. '45 \$3.00
LAKE GEORGE (K. Smith '45) ML (Probably Madam Ulmann) Blue-violet Remarkable blue parent. H.M. '45.\$3.50
LAKE SHANNON (DeForest '45) M (Souv. de Loetitia Mischaud x Jean Cayeux) x (Great Lakes) Medium-dark blue with fine character and form. H. M. '46\$4.00
LAMPLIGHT (Schreiner '44) M (Amitola x Angelus) Delectable light buff-peach blend. Remarkable blood here for wonderful seedlings.\$3.00
LAMPLIT HOUR (Tompkins '47) M (Lancaster x Honeyflow) White Standards, yellow falls. This, Pinnacle and Fairday will be interesting to use together for this color.\$5.00
LATE GUEST (Muhlestein '46) L (City of Lincoln x Royal Command) Brown- red variegata. Likes hot weather.\$1.00
LAVENDER AND GOLD LACE (Whiting '46) ML (Moonglow x Matula) Yellow standards flushed lavender. Falls lavender with yellow lace edge\$1.50
LEILANI (Washington '43) M (Copper Crystal x ? Melitza) Orange-pink with lines in the falls. Considerable garden value, and may be an exciting parent in this new color. H.M. '45\$6.00
LIGHTHOUSE (Salbach '36) L (Helios x Rameses) Light Coppery-red with inner light. Long a favorite. A.M. '40\$.50
LIGHTS ON (Lapham '46) M (Christabel x Red Gleam) x ((Red Sails x Jerry) x (Red Gleam)) Rather short red. Blood here—and all RED. H.M. '46\$6.00
LILAC LANE (Whiting '48) M (Purissima x Matula) x (Gilt Edge) Fine Light colored lilac self. H.M. '48.Net \$8.00

LOCKWOOD (DeForest '47) M (Casa Morena x Copper River) Red-brown blend.....\$6.00

LORD DONGAN (K. Smith '40) ML (Andante x Dauntless) x (Nene) Broad, rich, Chinese-violet and Pansy violet. H.M. '40.....\$1.00

LOS ANGELES (Mohr-Mitchell '27) M (Conquistador x Parisiana) x (Esplendido) Long a popular lightly marked blue plicata A. M. '44\$.40

LOTHARIO (Schreiner '42) M (Madam M. Lassailly x Winnesheik) Rich neglecta. H.M. '45\$2.00

LOUISE BLAKE (K. Smith '43) M (Madam M. Lassailly x Wabash) Wonderful rich contrast in this near amoena. Swell blood for neglectas and amoenas. A.M. '47.....\$2.50

LOVE AFFAIR (Mitchell '46) M (Plicata sdgs.) Large pinkish plicata.\$1.50

LOVELACE (Mitchell '48) M (Plicata Sdgs.) Delicately marked plicata. Distinct. H.M. '48\$10.00

LOVE STORY (Sapp) M (Golden Eagle x Hall's 43-18) Lovely new pink. H.C. '49.....

LUCERNE (Salbach '40) M (Shining Waters x Brunhilde) Good blue. Fine blood for blues and violets\$.75

LUGANO (R. Cayeux '48) EM (?) Tall, well branched white with distinct lemon-green cast. Said to be a dependable re-bloomer.\$10.00

LYNN LANGFORD (D. Hall '46) M (Two pink blend sdgs.) Smooth orchid with gold outpouring on hafts. This and Dreamcastle crossed should produce the "goods." H. M. '46\$5.00

MABLE CHADBURN (Chadburn '41) M (Sister to Joan Lay) Wide yellow, Dykes Medal England '41\$3.00

MADAM MAURICE LASSAILLY (Cayeux '35) M ("Armor" x "Carillon") Rich neglecta. Dykes Medal France '35.\$.50

MAGIC WAND (Kleinsorge '46) M (Tobacco Road x Daybreak) Tan blend. Good blood.\$2.00

MANDALAY (D. Hall '43) M (35-40: Dauntless x Rameses) x (May Day) Flaring reddish-tan-copper. H.M. '43.....\$.50

MAPLE SUGAR (Whiting '48) ML ((Marisha x Amitola) x (China Maid)) x (Harvest Moon) Light maple-tan. Luscious! Blood here for lovely blends and pinks.....\$5.00

MARATHON (Whiting '48) M (Mellowglow x Cedar Rose) Apricot, buff and orange skillfully blended.\$6.00

MARIMBA (DeForest '44) M (Salar x Far West) Cinnamon blend. Blood here for orange, plicata and blends.\$1.00

MARION VAUGHN (K. Smith '47) M (Elsa Sass x Wood Thrush: Siegfried x Mme. L. Aureau) Clean Lemon-yellow. Blood for this color as well as rich plicatas.....\$10.00

MAROON DAMASK (Kleinsorge '46) M (Mexico x red sdg.) Rich red. Fine blood.\$2.50

MARQUITA (Cayeux '31) ML (Symphonie x Helios) Ivory yellow, falls veined water-mellon. Nothing like it.\$.40

MARTIE EVEREST (Kirk McDade '35) EM. Re. (?) Blue bi-color. Dependable re-bloomer.\$.35

MARY CLOTILDE (Kinish '44) EM (Blue Triumph x Shining Waters) Fine smooth clean blue. Strong spicy perfume.....\$1.25

MARY ELLEN (McKee '47) M (Mary Vernon x Miobelle) Ox-blood red. Not unlike Mexico. Wonderful breeding for many colors: blends, reds, variegatas, oranges, etc. H. M. '47\$6.00

MARY E. NICHOLLS (Nicholls '39) M (Valor x Lucero) Cream-white with gold overlay on hafts. A.M. '43\$.50

MARY RICH LYON (E. Callis '37) M (Purisma x Pluie D'or) Sold out

MARY VERNON (McKee '42) EM (38-14 x Janet Butler) x (Chosen) Bright red-brown variegata A.M. '45\$2.00

MASKED BALL W. Buss '49) M (Gypsy Baron x ?) White plicata. Standards so heavily marked it looks like a reverse Amoena.....

MASTER CHARLES (M. Williamson '44) M (BB 2932 x ?) Glowing mulberry. A good performer. A.M. '46\$2.50

MATTERHORN (J. Sass '38) EM (San Francisco x 27-30: sister to Baldwin) Another clean white from two plicatas A.M. '40 \$.50

MATTIE GATES (Sass Bros. '46) M (Golden Fleece x 40-371: from two yellow plicatas) Very large, clean, bright lemon and white spangled beauty. H.M. '46.....\$15.00

MATULA (H. Sass '39) M (22:31: ((Rameses x King Tut x Cardinal)) x (Amitola) Rich blend. This remarkable blood is responsible for so much of the wonderful color found in the Whiting varieties. H.M. '39\$.50

MAY CHARM (Whiting '49) M (Mirabelle x Angelus) Pink blend sister to Pathfinder.Net.....\$1.00

MELANIE (Hill-Son '41) M (?) Large, dependable orchid-pink blend. H.M. '41 \$.60

MELLOWGLOW (Whiting '42) M (Midwest Gem x Fiesta) Large delectable apricot blend. Will produce Shell pinks when bred with them. H.M. '42.....\$4.00

MELODY LACE (Muhlestein '46) M (Mme L. Aureau x Tiffany) Refined, primrose plicata edged lavender-pink. Slightly ruffled. Tall well branched, a good grower.....\$2.00

MELODY LANE (D. Hall '49) E (Two flamingo pink sdgs.) Glistening golden Apricot. Very large. An intense Tangerine beard.....\$15.00

MERRY ROSE (Muhlestein '49) M (Lancaster x Daybreak) Smoothly finished rose Very poorly branched, but the color is lovely. A fine parent, and its seedlings have good branching.\$2.00

MELODIST (DeForest '46) M (Salar x Tobacco Road) Very large flaring henna blend. Blood for blends, oranges, plicatas, etc. H. M. '47\$5.00

MEXIA (Whiting '47) EM (Matula x China Maid) Nice pink blend. Sister to Three Oaks and Tea Rose.\$1.00

MEXICAN MAGIC (Whiting '47) M (Crimson Tide x E. B. Williamson) x (Veishea) Spanish red, brilliant blue and molten copper. H. M. '47Net \$5.00

MEXICO (Kleinsorge '43) M (Rebellion x Naranja) x (Treasure Island x Apricot) Rich Variegata blend One of the most remarkable new parents. Should produce to the Sass, Whiting and Kleinsorge lines, and to Rocket Orangeman, and Mcontide for Oranges. H.M. '44\$2.00

MICHAEL BARTON (Tompkins '47) EM (E. B. Williamson x Bright Melody) Rich carmen-magenta over deep hollyhock red. Impressed us as a better Vice Regal H.C. '45....\$10.00

MIDWEST GEM (H Sass '37) M (Sister to Matula) Pale ruffled buff-pink blend. Fine parent to produce ruffling and substance. Will throw Shell pinks. H.M. '37.....\$.50

MING YELLOW (Glutzbeck '37) M ((Mrs. V. West x Cream Sdlg.) x (W. R. Dykes)) x (Depute Nomblot) Big showy yellow. Blood for many colors. A.M. '41\$.75

MINNIE COLQUITT (H. Sass '42) M (?) Rich purple trimmed plicata. In great demand. A.M. '45\$2.00

MIOBELLE (McKee '45) M (Naranja x Janet Butler) x (Aubanel) proving a remarkable parent and grandparent for many rich colors, and good branching A rose-blend. H. M. '45\$2.00

MIOGEM (McKee '47) M (Miobelle) x (43-67 x Ming Yellow) Stunning broad rose with metallic flush in falls. Good substance. H. M. '47\$5.00

MIRABELLE Whiting '41) ML (Matula x Happy Days) Lovely blend with somewhat weak stalks. Difficult pod parent, but a dandy when induced to set seed. H.M. '41....\$2.00

MIRROR LAKE (Muhlestein '47) ML (Blue Spire x Great Lakes) Medium blue with just the right dip in the falls to give it distinction. Branching could be improved and Great Lakes' texture veining is still retained, but even so I like it. A fine parent for Blue and Whites. H.M. '48.....\$4.00

MISSOURI (Grinter '33) ML (Sensation x Blue Ribbon) Medium deep blue with brown on hafts. Dykes Medal '37.\$.50

MIST GLOW (Muhlestein '48) ML (Sundust x Radiant) White standards, lavender falls with gold reticulations. Producing some nice neglectas and Amoenas.\$4.00

MISTY GOLD (Schreiner '43) M (Tiffany x Siegfried) Delicate lemon and white from those plicatas again. Everyone wants it. A lovely iris. H.M. '45.....\$1.50

MOHRLOFF (C. O. Schirmer '49) M (Ormohr x Orloff) See Hybrids.....\$7.50

MONADNOCK (Salbach '37) ML (Marquita x Dark Night) Large showy rose-lavender.\$.50

MOONLIGHT MADONNA (J. Sass' 43) M Yel. sdlg. x Elsa Sass) Fine, clean lemon-yellow. A.M. '45\$1.50

MOONLIT SEA (J. Sass '43) M (Sdls., undoubtedly plicata blood) Unusual yellow ground overlaid blue. Plant with lemon yellows!\$.50

MOON RAY (H. Sass '43) M (?) Wide light yellow. Being used by some for pinks....\$1.50

MOONTIDE (McKee '46) M (Red Gleam x Mary Vernon) Tall well branched rich full yellow. Remarkable parent for oranges, blends and reds. Would like to see this, Mexico and Rocket crossed! H. M. '46\$6.00

MORNING BLUE (Jory '48) EM (Purissima x Capitola) See Hybrids.\$15.00

MOROCCO ROSE (Loomis '37) M (H-22: Lent A. Williamson and other iris) x (F. 70: W. J. Fryer x Ricardi) Lavender-rose. Produces tangerine bearded iris. A half sister to Sea Shell as well as Elmohr. H. M. '37\$.60

MOUNTAIN SKY (Milliken '41) M (1594 x 1485) Lovely rich, clear blue. Grand parent.\$.75

MOUNT CLOUD (Milliken '36) EM (Rajput x Easter Morn) Good white, and a good parent for this color\$.75

MOUNT HERMON (Lowry '45) M (Buechley Giant x Phebus) White sister to Syringa. H.M. '45\$4.00

MOUNT TIMP (Muhlestein '45) EML (October Opera x Tiffany) Big rose-trimmed plicata. Opens the tall bearded season here. Reblooms in favorable climates. Won Queen of the Show at Yakima in May 1949....\$.75

MOUNT WASHINGTON (Essig '37) EM (?) Tender white that carries the recessive factor for pink—or Tangerine beard. Parent of Peach Parfait\$.75

MRS. STELLA STEDMAN (Covert '44) EM (Snowking x Lady Paramount) Big white. Should be useful for whites, creams, yellows and blues\$1.50

MT. McKINLEY (Schreiner '47) EM (Amigo x Wabash) First Amoena to open the show. Tall, well branched\$2.50

MULBERRY ROSE (Schreiner '41) M (Frieda Mohr x Ozone or Violet Crown) Large showy mulberry-pink with brown on hafts. Popular. A.M. '44\$1.00

MY CHOICE (M. Tharp) M (Gertrude Fields x Quivera) Delicate pallida orchid-pink with bright orange beard\$.75

NANKEEN (Whiting '47) EM (Mirabelle) x (Rameses sdg. x Elsa Sass) Cool Chinese yellow overlaid chrome yellow. Tall, large, well branched, good substance.....\$6.00

NATALIE (E. Callis '46) M (Saint Joseph x Clinton Sylvester) Delicate pallida white-orchid-pink, styles deeper.....\$2.00

NATIONAL WHITE (Weed '44) M (?) Gudrun x Buechley Giant?) Huge white that always makes a good show.....\$1.00

- NEW ERA** (Sass Bros. '49) EM (stolonifera x D.B.) White Standards, olive-yellow falls. May be useful for greens, or white and yellow amoenas. 36 inches.....\$10.00
- NEW HORIZON** (O. Fay '46) M (Morocco Rose x Hall's 40-24: 35-40 x Lullaby) x (Overture) Bi-colored peach-pink with tangerine beard. H.M. '47.....\$6.00
- NEW SNOW** (O. Fay '46) M (Snow Flurry x 41-11: Gloriole x 39-3) Nicely formed clean white. Swell blood for blues and whites. A.M. '48.....\$7.50
- NICOLE LASSAILLY** (Cayeux '38) EM (Polichinelle x Don Juan) Blue bi-color neglecta. Dykes Medal France '37.....\$1.50
- NIGHTFALL** (D. Hall '42) EM (Indian Chief x Sdlg.) Large, rich bi-purple. A.M. '45.....\$.75
- NIGHT LIFE** (Muhlestein '48) M (Storm King x Sable) Very dark purple—almost black with yellow beard and styles—giving it "life." Almost twice the size of some of the other "blacks." Some ruffling at the hafts give it added charm. About 32 inches, but may grow taller if fully established for I have divided it closely since it bloomed. Really superb. Stock small.....\$18.00
- NIGHT SPOT** (Muhlestein '49) ML (Storm King x Prince Valiant: Joycette x McCall) Tall, well branched deep black-purple. Falls very velvety and flare horizontally. A lot of quality here. With Night Life I believe it will produce some exciting seedlings.....\$5.00
- NINE HEARTHS** (Rawlins '49) M (Wabash x Snowking) Gorgeous white. Should be wonderful for Amoena breeding. Difficult parent.....\$5.00
- NOONDAY SKY** (Weed '40) M (?) Grand medium blue, very showy in the garden \$.50
- NYLON** (Whiting '40) M (Amitola x Sandlewood) Reciprocal cross to Prairie Sunset. A big "nylon" tan. Wonderful parent. Produces Shell pinks. Parent of Gay Orchid.....\$.50
- OLA KALA** (J. Sass '43) M ((Amitola x ?) x (Prairie Sunset)) x (Golden Age x ?) Tall, brilliant yellow that is tops. Crossed with Garden Glory gave Carl Larsen a wonderful rich orange. Dykes Medal '47.....\$1.50
- OLD PARCHMENT** (Kleinsorge '39 M (Treasure Island x Far West) Fine parent for blends. A creamy buff-white. Parent of Utah Special. A.M. '41.....\$.60
- OLD ROSE** (Salbach '40) ML (Marquita x Monadnock) x (Dark Knight) Big tall showy Old-rose. Always popular.....\$.75
- OLYMPIO** (Cayeux '36) M (?) Large red-purple. Dykes Medal France '36.....\$5.00
- OPAL CLOUD** (Kleinsorge '49) M (Cascade Splendor x Daybreak) Terra-cotta pink with pale violet suffusions.....\$7.50
- ORANGE FLARE** (Covert) EM (City of Lincoln x Naranja) In somewhat the same color tones as Rocket. A very bright flower and should be a wonderful parent. Easy to set seed.....\$3.00
- ORANGE GEM** (McKee '48) M (Red Gleam x Mary Vernon) x (Moontide) New Orange H.M. '49.....
- ORANGE GLOW** (Cassebeer '42) M (Junaluska x Radiant) Improved Radiant-type. Good parent. H.M. '44.....\$.50
- ORANGEMAN** (Waters '46) M (Naranja x Golden Majesty) Large, deep orange yellow. This with Moontide, Orange Flare, Rocket or Goldbeater should produce something! H.M. '47.....\$4.00
- ORCHID LADY** (Salbach '43) M (Anne-Marie Cayeux x Alta Calif.) x (Miss Calif.) Wide Orchid effective in clumps. Ought to produce something with Dreamcastle, Harriet Thoreau, Lynn Langford, Fantasy or Gay Orchid.....\$.75
- OREGON TRAIL** (Kleinsorge '43) M (Rebellion x Naranja) x (Aztec Copper) Blood here for rich things. A tan blend with deeper shoulders.....\$1.25
- ORELIO** (DeForest '47) M (Casa Morena x Garden Flame) Large red with plenty of commanding power. Wonderful blood here. H.M. '48.....Net \$6.00
- ORIENTAL BAZAAR** (Buneaux '48) M (Miss Calif. x Hall's 41-1) x (Majenica) Showy blend of orange, buff and metallic lavender. H.M. '48.....\$9.00
- ORLOFF** (H. Sass '37) M (El Tovar x Amenti) Yellow plicata. Very fertile pollen parent on the "Mohr" family. H.M. '37.....\$.50
- OURAY** (Thomas-Thorup '37) M (Dauntless) x (Grace Sturtevant x Cameliard) Small, low red. Useful with larger, taller varieties.....\$.50
- OVERTURE** (D. Hall '44) M (Sister to Dream Girl) Small tailored pink. A good parent. H.M. '44.....\$3.00
- OZONE** (J. Sass '35) ML (Baldwin x King Tut) x (Douglas) Rosy-lavender with copper brushing at hafts. Unusual. A.M. '38.....\$.40
- PAGAN PRINCESS** (Douglas '48) M (Pink Cameo) x ((40-10 x Melitza) x (Flora Zenor) Deep rosy purple with tangerine beard. A bi-product of the shell pinks. H.M. '48.....\$7.50
- PAILLASSE** (Cayeux '36) ML (Marquita x Redalga) Smaller, smoky Marquita-type.....\$.50
- PAINTED DESERT** (Milliken '43) EM (China Maid x Chosen) Dull brown blend. A good parent for many colors, and fine branching. Will produce an occasional Shell pink when bred to them.....\$1.50
- PALE PRIMROSE** (Whiting '46) M (Happy Days x Midwest Gem) Ruffled light yellow. Should be a grand parent for pinks and ruffled things.....\$1.00
- PALLIDA F. VARIEGATA** (Krelage) Foliage green stripped yellow. Interesting for border work. Flowers insignificant blue with delightful grape perfume.....\$.50
- PAMELA** (E. Callis '43) M (Golden Bow x Gaynelle) Greenish yellow. From intermediate blood. Sets seed.....\$1.00

- PASTEL PORTRAIT** (Whiting '48) M ((Marisha x Sandalwood) x (Marisha x Amentii)) x (Angelus) Cream flushed pink. Good blood for pinks, blends\$1.00
- PATHFINDER** (Whiting '48) M (Mirabelle x Angelus) Referred to as the "Fat" pink. Very heavy substance and wide of parts. Branching poor, but individual flowers superb. A wonderful parent. H.M. '48
.....Net \$20.00
- PATRICE** (DeForest '45) M (Tiffany x Salar) Large delicately marked plicata. Fine blood for this color, reds, yellows and oranges. H.M. '46\$2.00
- PATRICIA** (H. Sass '39) EM (?) Delicate ruffled white. H.M. '40\$.60
- PATRICIA JOYCE** (Laura Maudlin Pullar '50) EM (Purissima x Bruno sdg.) Lovely smooth cream. See 1950 Introduction.....\$10.00
- PEACEMAKER** (Mitchell '34) M (Plicata lines) Porcelain white with lavender flush.....\$.35
- PEACH GLOW** (Kleinsorge '43) M (Idanha: Far, West x Junaluska) x (Sister sdg.) Nice smooth pink blend.....\$1.00
- PEACH PARFAIT** (T. Craig '49) EM (Mount Washington x Flora Zenor) Delicate, smooth, light peach parfait color. Good form and substance, and said to pass on these qualities to its children. H.M. '49.....Net \$15.00
- PEG DABAGH** (T. Craig '48) EM (Purissima x Capitola) Clear blue-violet. Won best stalk in Hollywood Iris show 1949. H.M. '48.....\$2.50
- PENNYRILE** (Rawlins '48) EM (Great Lakes x Gloriole) Blue sister to Alicia. Swell blood here for wonderful blues.....\$5.00
- PERMANENT WAVE** (Williams '48) ML (Blue Triumph x Waverly) Jaunty, crisp, ruffled sweet lavender shading to blue with golden brown hafts\$10.00
- PERU** (Milliken '45) EM (Mount Cloud x sister to Fort Knox) Large violet-blue.....\$1.25
- PIERRE MENARD** (Faught '48) ML (Sister to Cahokia) Deep rich flaring blue. Real individuality and charm. Destined to be popular. H.M. '48.....Net \$17.50
- PINK CAMEO** (O. Fay '46) M (42-02: Morocco Rose x Hall 40-24) x (Hall 42-07: Sister to Dream Girl.) Lovely tailored clean pink. Splendid parent of Twilight Sky, etc. A.M. '48\$2.00
- PINK CLOUD** (O. Fay '46) M (Ethelwynn Dubuar x Orchid sdg.) Orchid-pink diploid\$2.50
- PINK IMPERIAL** (Weed '39) M (Buechley Giant x Imperial Blush) Huge orchid-pink Good in partial shade.....\$.50
- PINK FORMAL** (Muhlestein '49) EML (Golden Eagle x Loomis' SQ 72) Large, wide, deep pink somewhat on the salmon side—close to 7A, plate 9, of Maerz and Paul Dictionary of Color, although there actually is more pink in the flower. The beard is intense red-tangerine. For form and substance difficult to find any iris to excell Pink Formal. I color class. Producing wonderful seedlings. H.C. '47. H.M. '49. Stock limited..Net \$25.00
- PINK REFLECTION** (P. Cook '42) M (Fancy Free x Sandia) Delicate light pink of fine form. A.M. '44.....\$1.50
- PINK RUFFLES** (K. Smith '40) EM (No-we-ta x Eros) Low growing ruffled orchid. Delightful enmass. A.M. '42.....\$.75
- PINK SALMON** (Muhlestein '48) EM (Spin-drift x Golden Eagle) Large salmon-pink—flaring falls. Somewhat short, but its seedlings have height, branching and color..\$7.50
- PINK SENSATION** (D. Hall '48) M (Tally Ho x Courtier) Said to be one of the pinkest. ScarceNet \$15.00
- PINK TALCUM** (W. Buss '49) ML (Flora Zenor ? x Overture?) The ground color of Flora Zenor in a flower twice the size. Good form, and the standards are closed.....\$10.00
- PINK TOWER** (Muhlestein '48) EM (Sister to Pink Formal) Larger than its sister but without the form and substance. It is producing large clean, wide, pink seedlings. C. of C. '47\$7.50
- PINNACLE** (Stevens '49) EM (Magnolia) x ((Gudrun) x (Lady Morvyth x Rangatira)) The striking new yellow and white Amoena. H.M. '49Net \$15.00
- PRAIRIE SUNSET** (H. Sass '38) M (Sandlewood x Amitola) Light peach, apricot, buff and gold blend. Dykes Medal '43.....\$1.00
- PREMIER PEACH** (D. Hall '46) M (Sister to Dream Girl) Lovely salmon-peach. Tangerine beard. Difficult pod parent, but fertile pollen. H.M. '46.....\$5.00
- PRETTY PANSY** (Sass Bros. '49) M (Bertha Gersdorff? x Moonlit Sea?) Purple and white, of Moonlit Sea-type.....
- PRETTY PENNY** (DeForest '43) M (Jean Cayeux x Rameses) x (Prairie Sunset) Small golden-tan. Fine blood here.....\$1.00
- PRETTY QUADROON** (Kleinsorge '48) M (Mexico x Tobacco Road) Wide, full, smooth metallic copper-brown. H.M. '48
.....Net \$15.00
- PRINCE OF ORANGE** (Kleinsorge '40) EM (Far West x Naranja) Fine orange-yellow. Blood for rich things including blends and oranges. A.M. '44.....\$.50
- PRIORITY** (Lapham '45) M Re ((Rameses) x (M. A. Porter x Jerry)) x (Red Ray) Sure-fire red rebloomer. Small rhizomes. H.M. '47\$2.00
- PRISCILLA** (Whiting '42) M (Purissima x Blue Waves) Very white! Well grown will have good height. Swell! A.M. '47.....\$1.00
- PTARMIGAN** (Kinish '49) M (Sister to Glory) Large, tall white with gold beard and slight gold hafts\$1.00
- PURISSIMA** (Mohr-Mitchell '27) EM (Argentina x Conquistador) One of the truly great parents and still in great demand. An easy pod parent. No pollen.....\$.35
think it is an important step forward in this

PURPLE MOOR (Lapham '47) ML (The Red Douglas x Edward Lapham) A larger Master Charles type. Blood for reds and rich purples\$5.00

RADIANT (Salbach '36) EM (Klamath x Sherbert sdg.) Coppery-orange. H.M. '38.....\$.50

RADIANT COMMAND (Muhlestein '48) M (Radiant x Royal Command) Bright neglecta in clumps or enmass. May be useful for Amoenas. Very fertile pollen.....\$1.50

RADIANT LADY (Maxwell '44) M (Rosy Wings x Radiant) Orange-copper self. May be useful for reds and rebloomers.....\$1.00

RADIATION (D. Hall '48) E (42-46: Golden Eagle x 39-62) x (Premier Peach) Tangerine bearded pink with an orchid cast when it first opens, but soon turns to a delightful pink. Lovely. H.M. '48.....\$15.00

RAEJEAN (Whiting '40) L (Amitola x Copper Piece) Clean two toned yellow. Blood for rich things. H.M. '42.....\$.75

RAINBOW ROOM (J. Sass '46) ML (H. Sass' 50-36 x Matula) Standards Anthony yellow. Falls bordered Anthony yellow and merging into lilac with metallic blotch at end of beard. H.C. '45.....Net \$15.00

RAJAH BROOKE (Norton '45) ML (Matula x Garden Magic) Rich blended variegata. Blood for reds and rich blends. H.M. '46.....\$2.00

RANGER (Kleinsorge '43 ML ((Rebellion x King Tut) x (Purissima x Dolly Madison)) x (Garden Magic) Splendid red. Good everywhere. Difficult pod parent. A.M. '46.....\$2.00

RARE MARBLE (Muhlestein '47) ML (Bonanza x Tiffany) Very bright red trimmed plicata. One of the best and a grand breeder for this color\$2.50

RED BONNET (Gage '39) M (Dauntless x Red sdg.) Good wide red.....\$.50

RED GLEAM (Lapham '41) M ((Bruno x Sherbert) x (Sass' 30-40: Redwing x King Tut) Superb red parents of Burmese Ruby. H.M. '41\$.75

RED MAJESTY (G. Douglas '46) M (Two sdls.) Red with yellow heart. H.M. '48.....\$6.00

RED RAY (Lapham '37) M (Red Sails: King Tut x Ethel Peckham) x (Jerry: Bruno x Belle Porter) Good red. Produces rebloomers\$1.00

RED TORCH (H. Sass '47) ML (Prairie Sunset x Rouge Bouquet) Golden-tan standards, vivid ruby-red falls. Wonderful blood for reds and blends. H.M. '47.....\$4.00

RED VALOR (Nicholls '39) M (Joycette x Red Robe: Morning Splendor x Cardinal) Beautifully formed red-purple. Rich finish. Parent of Burmese Ruby. Tall, well branched. H.M. '40\$1.50

REDWARD (P. Cook '42) M (From: Morning Splendor, Seminole and Cinnabar blood) One of the best new reds. H.M. '45.....\$3.00

REDWYNE (McKee '45) M ((Christabel x Teneya) x (Janet Butler)) x (Red Comet:

Dauntless x ?) Rich, deep mahogany red. Really grand! Right at the top. H.M. '45
Net \$5.00

REGAL ROBE (T. Craig '48) M (Acropolis x Destiny) Rich bright bi-violet.....\$4.00

RELENTLESS (P. Cook '48) ML (?) Rich and brilliant red\$10.00

REMEMBRANCE (D. Hall '42) EM ((W. R. Dykes x Dolly Madison) x Morocco Rose)) x (May Day: ((Golden Flare x Rameses) x Jean Cayeux)) Pink Blend.....\$1.00

REVEILLE (Tobie '44) M (Clovelly x Melitza) Delicate salmon with flaring falls. H.M. '45
\$1.50

RILLA GABBERT (Carpenter '46) M (?) Lovely jewel-like golden-tan blend with quality plus. H.M. '46.....\$7.00

RIO ORO (DeForest '42) M (Salar x Far West) Glowing honey-tan. Blood for oranges, blends and plicatas\$1.00

ROBINWOOD (Kirkland-Williams '41) M (?) Lovely red-bronze. Rich.....\$.50

ROCKET (Whiting '45) M (Sandlewood x Naranja) x (Golden Spike) Brilliant orange-yellow bi-color. No one can overlook it. Will be widely used in quest for oranges and rich blends. A.M. '47.....\$8.00

RODEO (DeForest '47) M (Tiffanja x Casa Morena) Huge plicata you can't miss. H.M. '49.....\$6.00

ROSE GOLD (Milliken '46) EM (China Maid x Dixie Sunshine) Medium sized rose-pink blend. Nice finish.....\$1.50

ROSEMARY (Whiting '47) M (Marisha x Morocco Rose) Big orchid pink. Blood for shell pinks\$1.00

ROSEMOHR (C. H. Lewis '49) M (Ormohr x Red Valor) Light Mulberry\$20.00

ROSE SPLENDOR (Kleinsorge '47) M (Peach Glow x No. 322) Watermelon and copper blend. Good form, finish. H.M. '48
Net \$6.00

ROSE TOP (H. Sass '41) ML (Tiffany x 136-34: Rameses x El Tovar) Very large, rose-trimmed plicata. Showy, fine.....\$2.00

ROSY RUFFLES (C. Rees '46) EM (Snow Flurry x Far West) Rosy lavender-pink. This on Char-Maize should produce something!
\$1.50

ROUGE BOUQUET (Whiting '41) M (Matula x Garden Magic) Same blood as Rajah Brooke. Wide, full, heavy substandard dark red bi-color\$1.00

ROYAL CREST (Milliken '48) M ((Buechley Giant x The Black Doubles)) x Spring Meadow: ((Calif. Blue x Souv. de Mme. Gaudichau) x (Blue Velvet)) x (Brunhilde) Well branched dark blue-violet.....\$3.50

ROYAL SCOT (D. Hall '44) M (Sister to Firecracker) Over-all patterned red brushed plicata, taller than its sister. Easy grower. H.M. '44\$1.00

RUBY GLOW (Schreiner '41) E (Grace Sturtevant x Graminea: D.B.) A true intermediate rich red. A.M. '48.....\$.75

RUBIENT (Whiting '42) ML (Valor x Winneshiek) Pansy red-purple Neglecta. Tall. Lovely perfume.....	\$1.00
RUFFLED BOUQUET (C. Rees '47) EM (Snow Flurry x Sunburst) Ruffled bi-cream, Standards deeper. Fine, smooth creation.....	\$10.00
RUSSET WINGS (Wills '46) M (Old Parchment x Stardom) Makes a stunning clump of glowing gold, copper and apricot. Large self, beautifully formed. H.M. '46.....	\$6.50
SABLE (P. Cook '38) EM (Involving: Innocenza, Blue Boy, Cinnabar and Seminole) Superb early black-purple. A wonderful parent. Produced both Night Life and Night Spot. A.M. '40.....	\$1.00
SALAMONIE (P. Cook '46) M (Majenica x Pink Reflection) Light peach-pink blend. Nicely formed. H.M. '46.....	\$7.00
SALMONETTE (J. Sass '46) M (40-166: Dore x Matula x (((Beau Ideal x Rameses) x Amitola)) x (Miss Calif.))) Medium size peach-pink or Salmon. Used with Pink Tower or other large pinks such as Hit Parade, Floradora or Deb's Delight should produce fine things. H.M. '47.....	\$5.00
SALMON SHELL (Muhlestein '50) M (Midwest Gem x Hall's 42-10) See 1950 Introductions.....	\$10.00
SAN ANTONE (Kleinsorge '47) M (333 x 311A) Deep Sand-brown. H.M. '48.....	Net \$6.00
SAN FRANCISCO (Mohr-Mitchell '27) EM (Conquistador x Parisiana) x (Esplendido) Fine, big blue and white plicata. Parent for blues, whites and plicatas. Dykes Medal '27.....	\$.50
SARAH GOODLOE (G. Douglas '49) ML (Display) x ((Scarlet O'Hara x Soldano) x Gallant Leader)) Deep maroon self. Fine branching, extra heavy substance. H.M. '49.....	Net \$15.00
SARAH KINISH (Kinish '44) M (Winneshiek x Sierra Blue) Medium blue. Good blood to go with other blues and purples.....	\$2.00
SEADEEP (Thole '37) EM (Buto x Santa Barbara) Deep marine blue. Might be especially useful with other lines of blues. Very fertile pollen.....	\$.35
SEAFARER (Buttrick '49) ML (The Admiral x Great Lakes) H.M. '49.....	
SEA GULL (I. C. Smith '48) M (Lax. Sdlg. Stella Polaris: Easter Morn x Violet Crown)	
SEA LARK (Muhlestein '46) EM (Brunhilde x Sable) Large violet blue with flush of purple in center of both standards and falls making it different from any other iris. Delightfully pleasant, strong, perfume. H.M. '47.....	\$5.00
SEDUCTION (Cayeux '33) M (Arlinde) x (Ensorceleur x ?) Wide plicata lightly marked lavender. Fine parent.....	\$.50
SELAH (Nelson '48) M (Thole white sdlg. x Show Girl: Rameses x Prairie Sunset) Light lavender-blue with gold heart. Distinctive, different.....	\$5.00
SERENATA (Milliken '44) EM (Sister to Fort Knox) x (China Maid x Dauntless sdlg.) Light pink blend.....	\$1.00
SHANNOPIN (Pillow '40) M (Redwing x yellow Sdlg.) Yellow standards, pinkish falls. Mrs. Whiting produced a wonderful pink from this and Pathfinder. May be very useful for Amoenas.....	\$.75
SHARKSKIN (G. Douglas '42) M (Cathedral Dome x Stella Polaris) Smooth glistening white. Somewhat short. Should be useful white parent with Glistenglow, New Snow, Katherine Fay, Snow Carnival, Lady Boscawen, White Smoke, or Alba Superba. A.M. '46.....	\$1.50
SHINING WATERS (Essig '33) M ((Caterina x Marian Mohr) x (Calif. Blue)) x (Uncle Remus x Moa) Dependable blue. Good blue and white parent—watch for narrowness, however. A.M. '36.....	\$.40
SHISHALDIN (DeForest '44) M (Sister to Casa Morena) Tall brown blend.....	\$1.00
SIERRA BLUE (Essig '32) ML (Souv. de Mme. Gaudichau x Santa Barbara) Very tall flaring blue. Grandparent of Blue Rhythm. Dykes Medal '35.....	\$.35
SIERRA SNOW (Kleinsorge '39) M (Purissima x Rameses) x (Far West) Tall good white. Blood here for whites, blues and blends.....	\$.50
SILVER LAKE (Kinish '49) ML (Mary Clotilde x Great Lakes) Non-fading pale blue. Lovely fragrance. Wonderful blood for blues. Scarce.....	Net \$10.00
SIOUX CITY SUE (Whiting '47) M (Matula x China Maid) x Burmese Gold) Auburn-red with blue blaze in falls. Great breeding here for rich blends and new colors.....	\$1.50
SKY MAID (M. Walker '44) EM (Purissima x Pacific) Nicely formed flaring blue. Blood for blues and whites. H.M. '45.....	\$1.00
SKY RANGER (D. Hall '48) M (Bandmaster x blue sdlg.) Very tall large blue. H.M. '49.....	\$12.00
SKY TINT (Muhlestein '49) M (Sparkling Frost x Gloriole) Not unlike Cloud Castle in color. Tall, well branched stalks that are heavy. Large flower of beautiful form. Standards conic. Should make a wonderful pod parent. No pollen. Stock limited.....	Net \$12.50
SLEEPY HOLLOW (Milliken '44) EM (Royal Salute x The Black Douglas) Rich purple. Fine blood for deep colors.....	\$.75
SNOQUALMIE (Brehm '38) M (Wm. Carey Jones x Mitchell white sdlg.) Still a fine cream.....	\$.50
SNOW CARNIVAL (Graves '42) EM (Santa Barbara x Gudrun) Very large flaring white. Blood here for smooth blues and whites. Would suggest Great Lakes, New Snow, Glistenglow, Mirror Lake to go with it. A.M. '44.....	\$2.00
SNOW CRYSTAL (Wills '47) EM (Sensation x Paulette) x (Narain) Big white with real blue at hafts and on styles. A plicata of merit and charm. H.M. '47.....	\$4.00

- SNOW FLURRY** (C. Rees '39) EM (Purissima x Thais) Delightful ruffled blue-white. Lovely perfume. Will surely go down in history as one of the great parents. No pollen, sets seed with ease. A.M. '41.....\$1.25
- SOLID MAHOGANY** (J. Sass '44) M (City of Lincoln) x (38-13: (Cardinal x Alcazar) x (H. Sass' 29-34) Deep mahogany red. Stunning and rich in the garden. A.M. '47.....\$3.00
- SONG OF GOLD** (Essig '37) M (((New Albion) x (Miss Wilmott x Sherbert)) x (Ambassadeur x Esplendido) x (Cardinal))) x (Alcazar x Souv. de Mme. Gaudichau) Fine yellow. Delightful perfume.....\$.75
- SONG OF SONGS** (Crosby '50) EML (Gold Ruffles x Cream Gold) Heavily ruffled. Yellow standards, white falls bordered yellow. See 1950 Introductions. H.C. '49..Net \$20.00
- SONRISA** (DeForest '42) EM (Her Grace x Prairie Sunset) Lovely smooth pink with yellow undertone. Fine blood for blends, plicatas, yellows, and whites. H.M. '45..\$1.50
- SORREL TOP** (Mitchell '43) ML (Palo Alto: Sherbert x San Francisco) x (Orloff) Medium sized rose-brown plicata. Well branched. Bright blood! H.M. '47.....\$1.00
- SORRENTE** (Cayeux '37) M (?) Fine blue blend. Scarce.....\$.75
- SOUSUN** (Essig '45) EM (Firefall, Kashmir White, Grace Sturtevant, Sombrero, Flame Bearer) x (Lilamani) Lovely light lemon yellow. Well branched. Starts the season with Mount Timp and Cool Lemonade. H.M. '45.....\$2.00
- SOUTHERN SNOW** (Beck '47) M (?) Large fine white.....\$2.50
- SPANISH PEAKS** (Loomis '47) M (Purissima x white sdlg. of Dominion) x (Sdlg.) Simply huge white. Will be a good parent with smaller flowered varieties for fine whites and blues. H.M. '48.....\$12.50
- SPARKLING FROST** (Milliken '39) EM (Purissima x Easter Morn) Lightest sparkling blue. Wonderful parent of Sky Tint.....\$.50
- SPINDRIFT** (Loomis '44) EM (Morocco Rose x Sea Shell) Deep coral pink. Fine parent and even better grandparent. H.M. '45.....\$2.00
- SPRING CHEER** (Whiting '47) M (Matula x Happy Days) Large yellow with blue and gold in falls. Blood for pinks.....\$1.00
- SPRING CHIMES** (D. Hall '42) EM (Bermuda Sand x May Day) Very large russet self, high branched. Effective in clumps.....\$.50
- SPRING IDYL** (Lapham '39) M (Elois Lapham x Marian Lapham) x (Wild Rose x Sdlg.) Delicate apple-blossom pink. Lovely indoors. Diploid.....\$.50
- SPRING ROMANCE** (E. Miess '49) EM (Melitza x Narain) Waxy cream-white with frosty overlay and heavy infusion of aureolin gold at haft. Extra heavy orange beard. Won Gold Cup at the 1948 Hollywood Iris show. 42 inches.....Net \$20.00
- SPRING SUNSHINE** (Milliken '47) EM (White Spire x Yel. Sdlg. 2384-5) Simply huge lemon-cream-yellow. Domed standards, strong midrib. Should make a wonderful show specimen and fine breeder. H.M. '47.....\$5.00
- SPUN GOLD** (Glutzbeck '40) M (((W. R. Dykes x Cream Sdlg.) x (Mrs. V. West x Depute Nomblot)) x (Vert Galant x Yel. Sdlg.))) x (Depute Nomblot) Full, rich yellow! Dykes Medal '44.....\$1.00
- S Q 72** (Loomis '48) EM (? Sea Shell and possibly Purissima blood) Delicate pale pink bi-color. Pollen parent of Pink Tower and Pink Formal. H.C. '47.....\$1.50
- STAG AT EVE** (Muhlestein '48) EM (Chosen x Prairie Sunset) Large russet-tan self sprinkled with gold dust. Interesting blood for blends, and possibly pinks.....\$3.00
- STARLESS NIGHT** (J. Sass '41) M (The Red Douglas x red sdlg.) x (Sister Sdlg.) Black-red with gold beard. Needs partial shade. H.M. '43.....\$.50
- STAR SHINE** (J. Willis '49) ML (Hermitage x Hernani) x (Song of Gold) Deep cream standards, falls white with faint blue in center, and edged color of standards. H.C. '48. 3rd place for H.M. '49.....Net \$12.50
- STATEN ISLAND** (K. Smith '47) M (The Red Admiral x City of Lincoln) Tops in variegatas! Blood here for whites, orchids and neglectas as well as this color. H.M. '48.....\$10.00
- STELLA VIOLA** (Snyder '45) EM (?) Big, violet in a wide, bright flower.....\$1.50
- STORM KING** (Nicholls '40) ML (Mata Hari x Smolder) Deep black-purple. Flaring falls. A wonderful parent. H.M. '41.....\$1.00
- STORY TIME** (Muhlestein '49) EM (The Red Douglas x Hall's 42-10) Huge bi-colored Burgundy-rose (Amethyst). Good garden value. Named for the exciting "big" stories father used to tell us. H.C. '48.....\$3.50
- STRATOSPHERE BLUE** (Lyll '46) M (Missouri x Blue sdlg.) Smooth bi-ultra marine blue. Fine.....\$3.00
- ST. REGIS** (Caldwell '47) M (Birchbark x Great Lakes) Very light blue, slightly ruffled. Should be a good white or blue parent. H.M. '48.....\$7.00
- SUKEY OF SALEM** (Nesmith '46) M (Bucaneer x Prairie Sunset) Rich brown-blend. Fine parent with Kleinsorge productions. H.M. '46.....\$4.00
- SULTAN'S ROBE** (Salbach '45) M (((Anne-Marie Cayeux x Alta Calif.) x (Happy Gift)) x (Miss Calif.))) x ((Gold Top x King Midas) x Miss Calif.) Old rose, copper and blue in falls. Broad of parts. Produces fine color and form in its seedlings. H.M. '46.....\$3.00
- SUMMERTIME** (Caldwell '49) ML (Betty Nesmith x Jean Cayeux) x (Golden Majesty) Deep yellow highly praised from every source. Rich blood here for yellows, orange and browns.....Net \$12.00

- SUNNY RUFFLES** (Waters '43) EM (Gudrun x Jean Cayeux) Nicely ruffled lemon-chrome yellow. This and Desert Song or Ruffled Bouquet should give some nice things....**\$1.50**
- SUNSET BLAZE** (Kleinsorge '48) EM (343 x 333) Deep red flame-salmon. Simply stunning. Winner of the President's cup 1949. First for H.M. '49.....**Net \$10.00**
- SUNSET HAZE** (Milliken '44) M (Sister to Fort Knox) x (China Maid x Dauntless sdlg.) Unusual, like the mist over the ocean at sundown**\$1.00**
- SUNSET ROAD** (Muhlestein '50) M (Prairie Sunset x Tobacco Road) Brown blend....**\$2.00**
- SUNSET SERENADE** (J. Sass '43) M (Golden Age x Prairie Sunset) Big light blend. Strong tendency to rebloom, and retained for that reason. A.M. '45.....**\$1.00**
- SUNSHINE** (D. Hall) M (Spring Prom x Token) x (Sister sdlg.) Bright yellow.....**\$1.00**
- SUSITNA SUNSET** (Wilson '47) EM (Prairie Sunset x Casa Morena) New rich blend. Should be a useful parent. Highly praised by those who have seen it.....**\$4.00**
- SUZETTE** (Knowlton '45) M (Seduction x Tiffany) Delicately marked yellow plicata. H.M. '45**\$6.00**
- SWAN LAKE** (C. Benson '49) M (Birchbark x Great Lakes) Same blood as St. Regis. Crisp light blue self. Exceptional form and substance. 1st in seedlings at Missouri Botanical Gardens show. St. Louis '46. C. of C. '48**\$7.50**
- SYLVAN BELLE** (Peck '43) M (Gloriole x White Sdlg.) Large white. Will be a fine parent with blues and whites. H.M. '48.....**\$3.00**
- SYLVIA MURRAY** (Norton '44) M (Great Lakes x Shining Waters) Large, flaring light blue that is a standout. Easy pollen parent, but somewhat difficult to set pods. A.M. '49**\$2.25**
- SYMBOL** (White '41) EM (Naranja x Fiesta) Large bi-orange yellow—falls brushed golden brown on hafts. Fine blood for oranges....**\$1.00**
- SYRINGA** (Lowry '47) M (Sister to Mount Hermon) Fine lilac (syringa)—good clear color, good form, substance and branching. H.M. '47**\$5.00**
- TALLY HO** (D. Hall '49) M (Fantasy x 42-46: Golden Eagle x 39-62) Shaded fuschia, large and well formed. Parent for pinks, orchids, apricots and burgundy shades. Parent of Heritage and Pink Sensation.....**Net \$12.00**
- TEA ROSE** (Whiting '44) M (Matula x China Maid) Neat rose-pink. Sister to Three Oaks and Mexia. H.M. '45.....**\$2.00**
- TENAYA** (Essig '33) EM (Alcazar x Souv. de Mme. Gaudichau) x (Cardinal) Rich deep purple. Swell. Blood toward reds.....**\$.35**
- THE ADMIRAL** (D. Hall '41) EM (Sensation) x (Selene x Wambliska) Heavy substandard blue. Going to be used more and more for hybridizing. Parent of the new Seafarer. A.M. '44**\$1.00**
- THE CAPITOL** (Maxwell '44) M (La Gloria x Gloriole) Large white with deep orange beard. Blood here for whites, creams and blues. H.M. '46.....**\$2.25**
- THE GUARDSMAN** (Grant '39) M (Winneshiak x ?) Commanding, unusual dusty mulberry, falls edged lighter.....**\$1.00**
- THE ORIOLE** (Schreiner '47) M (Spokane x El Tovar) Variegata with rich golden standards, blackish-maroon falls. Good.....**\$1.50**
- THE RED DOUGLAS** (J. Sass '37) M (Sister to Red Wing x Cardinal) x (Joycette) Large red-purple. Dykes Medal '41.....**\$.75**
- THE SHOWMAN** (Muhlestein '50) L (Arab Chief x Bryce Canyon) Red-copper, H.C. '48 See 1950 Introductions.....**\$10.00**
- THREE CHEERS** (P. Cook '45) M (Wabash) x ((Susan Bliss x Morning Splendor) x (Amoena Sdlg.)) Large, tall, high branched clean neglecta. Beautiful individual flowers. H.M. '46**\$4.00**
- THREE OAKS** (Whiting '43) M (Matula x China Maid) Striking bright, rich coppery pink blend with blue flush in falls. Superb parent. A.M. '49 **\$2.50; 3 for.....\$5.00**
- TIFFANJA** (DeForest '42) EM (Naranja x Tiffany) Lovely yellow plicata. Extremely vigorous. Blood for this color, oranges, reds and blends. A.M. '46 **\$1.00; 3 for.....\$2.00**
- TIFFANY** (H. Sass '38) EM (90-31: King Tut x Morning Splendor x ?) Wonderful break in the yellow plicatas and has done much in this color. A parent for reds and rebloomers. A.M. '43.....**\$.50**
- TIP TOP** (D. Hall '47) M (?) Plicata. Standards almost solid violet, falls white lightly peppered blue. Medium size.....**\$4.00**
- TISHOMINGO** (Caldwell '42) ML (?) Delightful, large wisteria blue. A.M. '44.....**\$1.00**
- TOBACCO ROAD** (Kleinsorge '42) EM (Aztec Copper) x (228: Far West x Jean Cayeux) This was a real break in the tobacco browns, and will go down in history for the wonderful rich colors its descendants show. A.M. '46**\$3.00**
- TOP SCORE** (Salbach '48) M (?) Stunning variegata right at the top with Staten Island. This one has yellow standards and orange-brown falls. I wanted to put Rocket on this!**\$7.50**
- TOSCA** (C. Benson '49) M (Brunhilde x Gloriole) Stunning ruffled medium lavender-blue. Standards domed, falls semi-flaring and wide. Excellent substance. C. of C. '38**\$10.00**
- TRANQUIL MOON** (P. Cook '48) M (Pink Reflection x cream sdg.) Heavy substandard yellow and white bi-color, falls bordered yellow**\$12.00**
- TREASURE ISLAND** (Kleinsorge '37) M (Purissima x Dolly Madison) x (Jean Cayeux) Yellow with light area in falls. Crossed with Far West gave Dr. Kleinsorge four wonderful seedlings: Aztec Copper, Grand Canyon, Old Parchment and Copper Cascade. Blood will tell! A.M. '45.....**\$.50**

- TREVA** (DeForest '45) M (Rio Oro) x (Sandlewood x Amitola) Luscious golden apricot. Should produce smooth seedlings. Blood here for plicatas, blends and oranges. H.M. '46\$3.00
- TRULY YOURS** (O. Fay '49) M ((44-43: Rameses x Far West) x (D. Hall's 42-35)) x (Zantha) Larger than Zantha. A yellow flower that shades off to white in both standards and falls. Edged with Chantilly lacing. H.M. '49.....
- TUNISIAN GOLD** (Tompkins '47) M (?) Large golden brown, hafts antique brown. Should produce smooth seedlings\$7.50
- TWILIGHT SKY** (O. Fay '48) EM (Pink Cameo x Floradora) Splendid new pink with royal pink blood.....\$10.00
- UTAH FIESTA** (Muhlestein '48) EM (Fiesta x Dubrovnik) Rich orange blend with lavender flush in falls. Very showy as a clump or enmass. May be useful for rebloomers.....\$2.00
- UTAH LAKE** (Muhlestein '50) ML (Shining Waters x Great Lakes) Blue. See 1950 Introductions\$2.00
- UTAH SPECIAL** (Muhlestein '50) ML (Old Parchment x Mellowglow) Luscious blend. See 1950 Introductions.....\$10.00
- VAL** (Brenan '44) EM (Mauna Loa x Brown Betty) Near-amoena. Double Mauna Loa blood, so double Lent A. Williamson blood. Should be useful for amoena breeding \$1.50
- VATICAN PURPLE** (Whiting '43) ML (Missouri x Mata Hari) The name describes its rich color: Royal blood, too. Grand form\$3.00
- VEISHEA** (Whiting '43) M (Matula) x (Matula x Summer Tan) Smooth rich blend somewhat similar to Three Oaks. Grand parent. H.M. '46\$1.00
- VELVET KING** (Harned '38) M (Bruno x Sherbert) x (Red Wing x King Tut) Fine large red. Possible re-blooming blood here\$.75
- VELVET MANTLE** (Clutton '50) ML (Cheerio x E. B. Williamson) Red. See 1950 introductions. Net\$15.00
- VENTURA** (M. Walker '47) EM (?) Brighter, more lively Mulberry Rose type. H.M. '47Net \$1.00
- VICE REGAL** (Miles '46) M (Directeur Pinelle x Sdlg.) Like a piece of rich brocade. Glowing bronze self.....\$2.00
- VIGIL** (Wills '47) EML (Valor x Venus de Milo) x (Gudrun) Large white quite outstanding for quality as well as its long blooming season. H.M. '47.....Net \$5.00
- VIIPURI** (M. Williamson '40) M (Sister to Wabash) Ruffled amoena.....\$.75
- VIOLET SYMPHONY** (K. Smith '40) M (Easter Morn x Violet Crown) Grand wide violet. Fine parent for this color and whites. A.M. '43\$.75
- VIOLINE** (Kinish '49) M (Ann Page x Theodolinda) x (Blue Triumph x Shining Waters) Violet-blue self. Smooth. From White Goddess x Violine Rev. Kinish produced pure whites, greenish-whites, pale blues and pale orchids. Lovely strong fragrance.....\$3.00
- VIRGIN SNOW** (H. Sass '47) (?) Short, well named pure white\$1.00
- VISION FUGITIVE** (Wareham '43) M (Sldgs. from trojana x Dominion) Very large creamy white. H.M. '45.....\$3.50
- VISION OF MIRZA** (DeForest '44) M (Sister to Patricia) Over-all patterned fancy plicata. To Rare Marble, Firedance or Firecracker will produce fine plicatas.....\$1.00
- VOODOO** (Kleinsorge '48) M (Mexico x Tobacco Road) Slightly richer Mexico-type. Splendid blood for hybridizing.....\$6.00
- WABASH** (M. Williamson) ML (Dorothy Dietz x Cantabile) Long the standard for amoenas. Pure white standards rich purple falls bordered white. With Extravaganza has been a most exciting parent. Dykes Medal '40\$.50
- WAKARUSA** (Lapham '41) EM (Mary Geddes x Red Gleam) Blended orange and red..\$.75
- WASATCH** (Thorup '35) EM (Lord of June x Lent A. Williamson) x (El Capitan) Earliest plicata, huge size. Possible blood for Amoena breeding, and there is size here.....\$.40
- WAXY WHITE** (Muhlestein '50) ML (Whiting's 40-86: Matula x Midwest Gem) x (Hall's 42-10) Flaring white. See 1950 introductions\$2.00
- WAYFARER** (Mitchell '48) M (Plicata derivative of Advance Guard) Larger, more ruffled Advance Guard.....\$3.00
- WHISTLING SWAN** (Waters '48) M (Snowking x Sunny Ruffles) Tall, slightly ruffled, hardy white. Swell blood for whites, blues, creams!\$5.00
- WHITE ALONE** (Horton '40) EM (Purissima x Midgard sdlg.) Large early white. Tendency to rebloom.....\$.50
- WHITE RUFFLES** (C. Taylor '47) EML (Snow Flurry x Princes of Brentwood: Ann Sheridan x Margaret Bond) Wide ruffled white with gold on hafts. Blood here for yellows, blends, creams, oranges, reds, lavenders and whites. H.M. '47.....\$8.00
- WHITE SENTRY** (C. Benson '49) ML (Birchbark x Bruno) Medium size. Pure chaste white with stiff substance. Wide of parts\$6.50
- WHITE SMOKE** (C. Rees '50) ML (Snow Flurry x "big dipper") Very large blue-white. Well branched.....\$10.00
- WHITE SPIRE** (Milliken '44) EM (Undoubtedly Purissima or Easter Morn blood) Very tall white. Superb parent.....\$1.00
- WHITE WEDGEWOOD** (Grant '43) M (Mount Cloud x blue bearded blue sdlg.) Large blue-white with blue-tipped beard. Fine parent. A.M. '45.....\$2.00
- WILD HONEY** (Whiting '46) EM (Jonquil: Serenite x Happy Days) x (Gilt Edge: Happy D. x Matula) Golden-tan. Rich blood....\$2.50

WILLIAM A. SETCHELL (Brehm '38) EM (Purissima x Dolly Madison) Simply gigantic purple. Substance for such a large flower \$.75

WINSOME BLUE (Horton '43) M (Nene x Indian Hills) Large blue-violet..... \$3.50

YARKAND (White '48) E (Oncocyclus x T.B.) H.M. '48 See hybrids..... \$3.50

YELLOW JEWEL (K. Smith '39) EM (W. R. Dykes x Mareschal Ney) Sulphur yellow, fine branching \$.50

YELLOW TOWER (Muhlestein '50) M (P. Desert x Hall's 42-10) Tall, well branched wide yellow. See 1950 Introductions..... \$2.00

YOUR WORSHIP (White '48) M ((Fiesta x Chosen) x (Sister sdg.)) x (Tobacco Road) Red-brown self. H. C. '46 \$7.50

ZANTHA (O. Fay '47) EM (Gold Medal: Crown of Gold x Lady Paramount) x (41-22: Golden Hind x ? Jean Cayeux) Simply huge, brilliant, clean yellow. The parent of Truly Yours, so watch it! H.M. '47. The President's Cup '47. \$7.50

HYBRIDS

ALTAMOHR (C. J. Paul '48) ML (Wm. Mohr x Alta Calif.) Flaring Orchid-violet—a shade deeper than Ormohr. Fertile pod parent. One hybridizer, working in this field, wrote it was far better than he expected..... \$2.50

ANATOLIA (T. Craig '49) (Tiffany x Los Angeles) x (Capitola) Showing both its onco and plicata blood, but quite onco-like in appearance. Net..... \$10.00

ANITA CATHERINE (S. C. Clarke '48) ML (Purissima x Mohrson) Large blue-white. This crossed with other Wm. Mohr derivatives should give something. \$5.00

BALTIS (White '48) (?) Rich naphthalene violet shaded deeper, Strong Onco characteristics. Three branches. Three feet tall. H.M. '48 \$5.00

BARRIMOHR (W. Miller '44) M (Wm. Mohr x Adobe) Heavy bi-purple. \$1.50

BELLORIO (Mohr-Mitchell '24) EM (korolkowi x germanica) Regelia blood. \$.50

BLUE ELEGANCE (Jory '48) EM (Purissima x Capitola) Tall, large blue. H.M. '49 Net..... \$15.00

BLUMOHR (W. Marx '49) EM (Wm. Mohr x Orloff) Smooth heavy subtanced blue. H.C. '48. H.M. '49 Net..... \$15.00

BUTTERFLY WINGS (White '46) M (Pink Jadu x Susiana) x (Theme x Sacramento) Unusual! Porcelain-blue with "butterfly" lines all over falls Produces seed freely, but use large things with it. H.M. '47. \$5.00

CAPITOLA (Reinelt '40) E (Wm. Mohr x Ibmac.) Darker, heavier Wm. Mohr-type. When it has pollen this is quite fertile. Produces very onco-shaped, wide, good seedlings. H.M. '47 \$1.00

CAPTAIN ROYAL (Snyder '44) M (Wm. Mohr x Mussolini) x ((Beote) x (El Capitan x Depute Nomblot)) Large medium purple \$2.00

COGETTE (White '38) E (Charon x Susiana) Rosy purple—veined \$.75

DUE WEST (White '36?) E (Purissima x Susiana) Big white. Fertile pod parent..... \$.50

ELAN (White) E (Sweet Alibi No. x No. Jocund) Early tender white. Produces seed \$.50

ELENA CHOOSING (White '44) EM (Answer x Jocund) Wide, light golden bronze. Easy parent. Really produces grand seedlings with T.B. or Onco blooded things..... Net \$1.50

ELMOHR (Loomis '42) M (Wm. Mohr x Red H 22) Mulberry purple. See List..... \$1.00

ESDRAELON (White '45) M (Landmark x?) Rich purple. Not Onco in appearance..... \$2.00

EVENSONG (Frazee '50) (N. J. Thomas x sdg.) See Introductions..... \$10.00

FARCROSS (White '41) EM (1/4 Onco) Rich red-purple. Easy parent..... \$1.00

FLURRY MOHR (C. Rees '50) EM (Snow Flurry x Capitola) Large deep, smooth violet. See 1950 Introductions..... \$5.00

GRACE MOHR (Jory '35) EM (Wm. Mohr x Yel. Mitchell Sdlg.) Large flaring, veined violet. Produces seed. A.M. '39..... \$.75

GYPSY KING (Lothrop '44) EM (Sdlg. x Farcross) Wide mulberry..... \$1.25

HEIGHO (Craig '49) EM (Purissima x Capitola) See list Net \$25.00

HOOGIE BOY (Muhlestein '49) E (Hoogiana x sdg. Genevieve Serouge x Salutation) Wisteria violet-blue self with gold beard and hafts. Very fertile both ways. H.M. '49 \$5.00

HOOGSAN (A. Samuelson '47) EM (Hoogiana x San Francisco) Delphinium blue. Large flower, well branched. Tall stalks a bit weak. Lacks substance. Fertile both ways. Blood for blues and plicatas..... \$3.00

IB-MAC (Van Tubergen '10) E (iberica x Macrantha) Purple parent of Capitola, Silver Charm, Peshawar and others. Very fertile pollen, especially on other hybrid lines. Limited Net \$2.00

ICICLE (W. Marx '47) E (Yel. Dwarf x Luna) Dwarf hybrid—white flecked blue-lavender \$1.00

ILLUSION (Kleinsorge '43) L (Ormohr x Red Cross) Smooth orchid. Blooms out in a week—its only fault. Sets some seed. H.M. '47 \$3.00

JOCUND (White) E (Oncocyclus x Bearded) Yellow. Fertile pollen..... \$.50

- JOPPA PARROT** (White '48) EM (Onco-hybrid) Yellow-beige—flecked cinnamon, violet and mahogany. No more fertile pollen I know of. Will breed unusual things
.....**Net \$6.00**
- LADY MOHR** (Salbach '44) EM (See List) Oyster-white and chartreuse with veining and signal patch in falls. May produce nice seedlings with Elena Choosing or Joppa Parrot. A.M. '46.....**\$2.50**
- LAUREL HILL** (G. Plough '49) M (Wm. Mohr) x (Brehm Sdlg.: Esplendido x Bruno) Rosy red-lavender. Flaring falls, full domed standards. Sets seed, no pollen. Good blood for reds and plicatas.....**\$10.00**
- MOHR BEAUTY** (Milliken '49) M (Elmohr x yel. sdg. involving: Lady Paramount, Cheerio, Easter Morn, Camilard, Aurifaro, Henri Riviere, Dauntless, Alta Calif., Loudon, New Albion and Chosen.) Light yellow with Elmohr form. Perhaps the first introduced seedling from Elmohr.....**Net \$15.00**
- MOHRESQUE** (A. D. Keith '50) M (Doxa x Zwannenburg) See 1950 Introductions.....**\$5.00**
- MOHRLOFF** (Schirmer '49) M (Ormohr x Orloff) Smooth violet plicata—over-all pattern. Easy pod parent.....**\$7.50**
- MOHRSON** (White '35) M (Wm. Mohr x?) Big bi-purple. Somewhat fertile pollen, will produce some seed.....**\$.50**
- MOLASSES** (White '45) M ((Theme x Sacramento) x (Pink Jadu x Susiana)) x ((Dauntless x Mirasol) x (hauranensis)) Rich brown-red. Will produce seed.....**\$3.00**
- MORERA** (Mohr-Mitchell '28) E (Korolkowi x Ib-Mac) Bi-colored blue-purple. Somewhat fertile**\$1.00**
- MORNING BLUE** (Jory '48) E (Purissima x Capitola) Rich medium blue. Wide form. Tall stalks**Net \$15.00**
- MUSTAPHA** (White '44) EM (Onco hybrid) Rosy red-lavender. Very flaring falls
.....**Net \$.75**
- MY DAY** (M. Tharp '44) M (Wm. Mohr x Los Angeles) A Mohr seedling with a little more white showing through than in Grace Mohr. Will give some seed. Plenty of Plicata blood here.....**\$1.00**
- N. J. THOMAS** (Thomas-Thorup '44) M (Wm. Mohr x Cardinal or El Capitan) Bi-purple. Will produce some seed.....**\$.50**
- ORMACO** (Kleinsorge '42) M (Ormohr x Aztec Copper) Rich purple with copper undertones. Fertile pollen. H.M. '47.....**\$1.00**
- ORMOHR** (Kleinsorge '37) M (Wm. Mohr x Anakim) Large violet. Produces good seedlings. A.M. '40.....**\$.50**
- OYEZ** (White '38) E (Polyhymnia x Jubilee) Everyone who sees it wants it Falls flare and have the same veining as seen in Butterfly Wings. Scarce**Net \$1.50**
- PEG DABAGH** (Craig '48) E (Purissima x Capitola) See List.....**Net \$12.50**
- PESHAWAR** (Schreiner '37) E (Ib-Mac x sdg. of Chaemaeiris) Rich Mulberry. A lovely iris. Dwarf stature.....**\$.40**
- POLLY** (F. Williams '44) E (Sweet Alibi) x (Purissima x Susiana) Small different blue. Easy pod parent.....**\$1.00**
- PRESENT** (White '41) E (Oncocyclus x Beard-ed) Large, tall hybrid that will please those who love the unusual, the exotic. White ground with close orchid veining. No branching. Evidently infertile. A.M. '49
.....**\$1.50**
- ROSEMOHR** (C. H. Lewis '49) M (Ormohr x Red Valor) See list. Swell!.....**\$20.00**
- SHERIFFA** (White '42) EM (Regelia derivative x Onco derivative) Rich metallic red-violet. A.M. '45**\$1.00**
- SILVER CHARM** (Craig '48) EM (Purissima x Ib-Mac) Medium blue-grey flowers. Very fast of increase.....**\$3.00**
- SOQUEL** (Reinelt '40) E (Wm. Mohr x Sunol) Lighter Wm. Mohr type. Produces seed
.....**\$.75**
- SPOTLESS** (H. Sass '39) E (Hoogiana x Elf Queen or Sound Money?) Pale cream..**\$.50**
- SPORTING THOMAS** (Muhlestein '49) M (Sport of N. J. Thomas) One of those rare true sports. Rich purple. Very fertile both ways—especially fertile pollen.....**\$2.50**
- SUEZ** (Schreiner '43) EM (Wm. Mohr x Mme. L. Aureau) Showing both its parents. Said to have fertile pollen. Sets seed easily..**\$3.50**
- VELVO** (J. Sass '33) E (Beatrix x pumila sdg.) Dwarf purple**\$.50**
- WILLIAM MOHR** (Mohr-Mitchell '25) E (Parisiana x l. gatesii) The wonderful violet hybrid. Will produce some seed.....**\$.35**
- YARCAND** (White '48) E (Oncocyclus x T.B.) Symphony of violets. Wisteria violet veined and toned deeper Blanc's, Bradley's and Madder Violets. When I first saw this I thought of a Blue Wm. Mohr. Rich. Unusual. H.M. '48.....**Net \$3.50**
- YUSSUF** (White '46) EM (Oncobred) Lighter Mohrson-type with areas of white.....**\$1.00**
- ZEBULON** (E. Callis '42) M (Ormohr x Sir Knight) Large purple, good pod and pollen parent**\$1.00**
- ZIA** (White '45) E (Oncobred) Table iris in odd violet-lavender, smoky and rosy tones
.....**\$.35**
- ZWANENBURG** (Denis '12) E (Lutescens Aurea x l. susiana) Tan-buff blend. Wide. Somewhat fertile pollen on dwarfs and certain intermediates**\$.25**

DWARFS

BEAUTY SPOT (W. Marx '47) E (Red dwarf x Hermione) A rich red-mulberry hybrid. H.M. '49\$1.50

BLUE MASCOT (W. Marx '47) E (Reflection x Chamaeiris) Really blue. Swell.....\$.50

LITTLE ELSA (Muhlestein '49) E (Brautjungfer x Bride) Almost white standards flushed lemon. Falls Lemon yellow, shaded lighter toward outer edge. Heavy bloomer. 8 inch stems. H.M. '48.....\$.50

MOON GLEAM (W. Marx '47) E (Sound Money x Chamaeiris) Light yellow with wide flaring falls. Blooms so heavily it will carpet the ground. H.M. '49.....\$.75

PETITE (Horton '49) E (Harbor Lights x Sdlg.) Aconite violet (Mauve-Pink) Lovely shape. Rounded, semi-flaring falls.....\$2.50

PURPLE BEAUTY (Horton '45) E (Susa x Negus) Very large rich purple 8 Inches tall. Heavy bloomer.....\$.35

SNOW MAIDEN (Chadwick '35) E (?) White 12 Inch branched white. Blooms with the dwarfs or just before the Intermediates to which group it probably belongs.....\$.35

WEE ADMIRAL (W. Marx '47) E (Cryso x Charon) Dwarf hybrid. Intense red-purple hybrid\$1.00



SPURIA IRIS

Will be shipped in September.

These iris grow easily, but respond to good soil and some barnyard fertilizer. Their heavy rhizomes and roots are great for holding banks. The flowers are delightful for several reasons: they follow the regular tall bearded season, make fine cut flowers, are lovely for corsage work. The Spuria is a beardless species. There is much to be done in hybridizing toward new colors, although great strides have been made, especially by that wizard Eric Nies.

AZURE DAWN (Nies '47) (Ochroleuca x Monspur) x (Sister sdlg.) Blue-lavender with lemon-chrome signal patch.....\$1.50

BRONZSPUR (Nies '41) (Ochroleuca x Monspur) Blend of brown and yellow veined sepia. Fine parent for browns.....\$1.50

FAIRY LIGHT (Thorup '48) (Shelford Giant x Yellow spuria) Lemon-chrome. Falls ruffled, flaring and bordered one-eighth inch pure white. H.M. '48.....\$5.00

FAIRY WAND (Washington '31) (?) Blended tan. Unusual\$1.00

GOLDEN NUGGETT (Dean '31) (?) Fine rich yellow\$1.00

MONNIERI (Collected, may be only a garden hybrid of l. ochroleuca) Golden yellow...\$.50

SAGATUCK (Nies '41) (Ochroleuca x Monspur) x (Sister sdlg.) Soft lavender with brown veining in falls. Good parent for tans and blues\$1.50

WHITE HERON (Milliken '48) Near white with yellow in center portion of the flower\$7.50

HYBRIDIZING HINTS

For those who, like myself, feel a desire to have a hand in the creation of new iris, I offer these personal notes. My findings may not agree with your own and you may have other ideas in approaching your color goals. It is impossible, always, to know, with certainty, just what a cross will produce, although we may expect from two yellows a great percentage of yellows, or whites from whites, blues from blues, pinks from pinks, etc. However, the background of parents may play an important part in the progeny, so it is well for any student of hybridizing to know and study family trees (or pedigrees) and for this reason I have decided to give parent-ages, so far as possible, for each variety listed.

Unless one has unlimited space he should confine his hybridizing efforts to the development of one or two colors which especially interest him. There is, of course, room for improvement in every color class, and who knows the unheard of combination of colors that may be achieved. But we have yet to produce a true red, a better pink, deep orange self, pure white, a sky blue, plicatas of better quality or of unusual pattern and design, a true black, rich yellows of various shades of color and form, better amoenas or creams, and the somewhat neglected lavenders and orchids. You may want to play with the hybrids, Wm. Mohr's descendants, species, dwarfs, or find interest in producing intermediates (crosses between tall bearded and dwarf bearded iris) and little has been done in this class for some time, and they certainly are a floriferous type of iris and fill the gap between the early dwarfs and the later tall bearded sorts. Or you may find interest in Spurias, Dutch or the Louisianas. There is room for all. Some growers fear it unlikely they might produce anything in the Pinks, for instance, for great strides have been made since so many are working in this color. But who can say where the real break may come? Perhaps some veritable novice will, with a first cross, produce a color long sought by other systematic hybridizers, yet it will be welcomed by an iris loving public regardless of who may have produced it. So, pick the color, or colors, you want to breed for, employ the latest work of others. Use, as well, your imagination and skill as a hybridizer and your work will be crowned with success, if not at first, surely after a generation or two of your own seedlings, for you will learn which lines give results.

Use the Best

It is a good rule to use the finest parents obtainable. Possibly one will produce better and unusual seedlings by using the latest in color developments, although some seedlings are notoriously good parents even though old. If one seeks fine form, width, depth of color, branching, height, smooth texture, etc., use iris possessing them, or known to produce these qualities. Build on the success of others. It is a difficult matter to work alone. It would be unwise to go back to original breaks such as Sea Shell or Kashmere White, for modern seedlings are so much better in size, form and substance. It would be useless to do the pioneer work of the Sassés all over; rather use their great developments together with lines from other hybridizers to work toward your goal. Line breeding, once a color is established, will bring forth good results, but I would suggest breeding out for hybrid vigor, depth, size, substance or form, and refinements will come in later generations.

Making the Cross

I hope no would-be hybridizer wastes his time spreading pollen on the beards of iris as I did the first year I tried my hand at making crosses. It seemed the natural place to put the pollen; otherwise why were the stamens directly above these beards? I then studied Salbach's manual and the next season crosses were made properly—each labeled to indicate the pollen parent, and I do believe I crossed every flower that opened. Needless to say my "first children" were a "dirty-faced" lot—dog-eared, strappy, open-standards, tucked falls—every fault imaginable. I did number three hundred "remarkable" seedlings, but only the following were actually named: Mount Timp, Cool Lemonade, Rare Marble, Melody Lace, Late Guest and Dawn Overlay. And now, although I grow as many seedlings I number less and less each year even though the quality gradually improves. One's judgment, together with the high quality of modern iris betters—and every hybridizer must be super-critical. Wise would be he who could wait to introduce a sure-fire Dykes Medal winner, but think of the dozens of fine varieties (and all the missed varietal comments) we should be denied, and possibly some unborn world-beater would never see the light of day because its blood (just the right blood) was kept from introduction because it was not a perfect iris.

At any rate, fanciers who wish to start hybridizing iris as a hobby would do well to procure all the books obtainable on this fascinating subject, and above all they should become members of the American Iris Society for this will keep them up-to-date on all matters pertaining to our favorite flower. The Society has published a book, "The Iris An Ideal Hardy Perennial" and they carry Sidney Mitchell's new book: "Iris For Every Garden" both of which any fancier should have for they contain a wealth of material on history, hybridizing, and every phase of iris culture of interest to the amateur, advanced collector, or hybridizer.

Tools for the Hybridizer

Necessary tools of the hybridizer are the following: A blunt pair of tweezers—these can be tied to a string which may be carried around one's neck, crossing tags—these can be small marking tags procurable at office supply stores, or one may use plastic or wooden-plant labels, a pencil to mark the cross, and if you are to do a great deal of hybridizing, I'm sure you will find a pollen file most helpful. I make a long narrow box about two inches wide and three inches high; the pollen envelopes are made of half sheets of typing paper folded to fit into the file. It is wise to use a rather poor grade of paper for this allows the stamens to dry out. Waxed paper, or heavy paper, does not permit the stamens to dry and the pollen becomes useless. Pollen gathered (or sent for) will keep at least six weeks at ordinary room temperatures, however, in sections of the country where the climate is extremely damp it may be necessary to prepare special pollen vials—this method is described in Sidney Mitchell's new book. Although if one intends to make only a few crosses it sometimes happens that a rain or hail storm will destroy all the pollen of a variety one wishes to use at a later date, so if one will gather pollen at the start of the season it will be available when needed. Many fanciers like to use pollen directly from fresh flowers. This is perfectly satisfactory so long as the right parent is blooming at the desired time, yet, early blooming varieties may be gone when some late flower opens and suddenly the desire comes to cross these widely separated blooming varieties, however, if one has gathered pollen he will have what is needed in his pollen file for such a cross.

The Stigma

Every experienced hybridizer knows the parts of the iris well, but some novice may not know just where the stigma is located, so I will describe this. As we all know an iris has a perfect trinity of parts: three falls, three standards and style arms, and it is on these three style arms the stigmas are located—and this little "shelf" or stigma is best seen when the tip of the style is pulled back to expose it. A fresh and receptive stigma has a frosty-like sheen and one that is too old to receive pollen will look slick and dry. Some varieties are best pollinated even before the flower has opened and this is especially true of Wm. Mohr or other difficult parents, for the stigmas undoubtedly contain a sticky substance which helps the pollen to grow down into the ovaries. When the stigma has become dry there is little or no chance for fertilization to take place. The best time to make the cross, then, is preferably on a freshly opened flower with pollen that is dry and fully ripe, and on dry days, however, in event of rain a paper bag, cellophane, or other shield, over newly pollinated plants will permit a take. Fertility is very high even in very cold weather, provided the flowers are not wet for a few hours after the cross has been made. It is best to use the stamens themselves in spreading on the pollen. With varieties that set seed with ease where one is using the same chromosome count to hybridize (be it dwarf, species, or tall bearded) pollen on one stigma will suffice, however, with parents that are difficult to get pods of seed pollen should be used on all three stigmas, for it sometimes happens that one or more of the surfaces may have become dry or injured in some way. If a camel's hair brush is used in pollinating, the brush should be changed or dipped in alcohol and dried between each pollinating. The tweezers can be used to gather up pollen grains which have fallen off stemens in the envelopes and after each cross the tweezers should be wiped clean with fingers or a soft cloth.

After the pods have started to form there is always the worry of these being lost in one way or another until the seed has been gathered in their labeled sacks or envelopes and properly planted. In some sections rain followed by heat often causes the pods or stalks to rot. To prevent pods rotting on the stalks it is wise to peel off the spathes around each of the pods (those green sheaths at the base of the pods) and the extra leaves at the various branches on each stalk. Of course if the pods are broken off too soon there is not much that can be done, however, if they have been growing three or four weeks the seeds may be finished if poked into moist sand in a shaded place, but if the stalk is broken off this can be finished in a sugar and water solution in a vase, or if far enough advanced just in a dry vase will do the trick. One should continue to keep track of the crosses for without the pedigree these "children" may be beautiful but far less interesting and important in further hybridizing work. It is not easy to guess parentages or the background of seedlings lost track of. After the pods have developed for about two months they will ripen and start to crack open or turn yellow or brown—it is at this stage the hybridizer is kept busy gathering the various crosses. If one is to be away and cannot gather his seed in advance it will be wise to tie little bags made of cheese cloth, or other material, over each of the pods—with the crossing tags inside—then if the seed pods burst open the seeds will not be lost or scattered. Should the seed become mouldy in drying or in drying too slowly do not become alarmed—this will not interfere with its fertility or its germination. It is advisable, however, when gathering the crosses, where there is any amount of seed, to spread these crosses in open sacks or boxes—being sure to shake up or stir the seed until it has dried. In some sections where there is not a great amount of cold weather it is advisable to plant the seed immediately; this hastens germination.

Planting the Seed

Some fanciers plant their seed where it is to grow—in furrows right in the field (I prefer this method), for it is likely one will get about eighty percent bloom on first year plants, however, it has some disadvantages for seed continues to germinate for several seasons and one must be prepared to take care of these later germinations. If a special seed bed or cold frame is used to grow seedlings one may expect better germination in the use of Vermiculite mixed with about one-fourth part of peat, fine sand and soil. One "secret" of good germination is, of course, enough moisture after the seeds are planted until all germination has ceased. About three to four weeks after the seedlings have germinated they should be lifted from the seedling boxes or beds and quickly transplanted in the garden where they will stay until they have bloomed. This early transplanting will help to insure a great percentage of first year bloom. Moisture at transplanting time is most important—if the roots become dry and the seedlings wilt it may retard their growth or kill them. Protection from extreme heat may be wise, too, using strawberry boxes or plant-caps until they have become established again. Some fanciers advocate the use of root hormones when transplanting—such as "Transplantone," etc. Needless to say the rows of the beds should be prepared in advance with rich garden soil and these beds should be moist and should be kept moist until the newly set plants are established and growing—then periodical waterings of once or twice weekly will suffice. Iris are sun lovers and these small seedlings will grow faster if allowed full sunlight. Shade or spots where tree roots sap the soil will grow plants, but may not produce bloom. Rare seed, or difficult crosses producing but a few seed, should be planted either in boxes or pots where the seed may be kept as long as it is firm. It might be well to sift the soil from time to time (after the germination period has ended each season) to see if the seed is still solid—if it has turned soft or has rotted there is no need, certainly, to hold these over. However, if the seed remains firm it may germinate after several years. I have found a great many of Wm. Mohr's seeds germinate the second year and have had some come the third year, but I have seed, firm, that is still in the pots after five years. It has been known for seed to germinate after being planted seventeen years. The pure *Oncocyclus* seed seem to germinate with difficulty. My experience has indicated second year germination, however, I have not planted the seed while still moist when first removed from pods. I have made it a practice, however, to plant all Wm. Mohr seed in pots immediately after they are removed from pods. And speaking of Wm. Mohr—those who work with it will have a great many good looking pods shrivel up over night, apparently, with no seeds in them. This same thing may be true with crosses where *Oncocyclus* pollen is used on tall bearded sorts, but if one or two seeds are obtained and a seedling results the thrill of achievement is pay enough even though the resulting seedlings may not be worthwhile in themselves; they may be fertile and their seedlings may give new breaks, hybrid vigor or a hope for something exciting in future years—after all, such dreams keep some of us so-called hybridizers going! I would suggest, however, with rare seedlings such as the Wm. Mohr or other *Oncocyclus* derivatives to leave them undisturbed a year before transplanting.

Some fanciers have wondered about hastening germination and seedling growth by planting the seed in greenhouses. This has not proven very satisfactory. However, if seed is planted immediately the pods begin to turn, yellow germination may be improved. The greenhouse might be useful in the sustained winter growth of rare seedlings that may be planted in pots, however, such small seedlings in the field should be given some winter protection—a mulch of excelsior, leaves or marsh hay to prevent thawing, freezing and inevitable heaving.

But enough! Let us consider the various color classes, again, and I will to the best of my ability, list some of the known fine parents, or prospective parents for these colors.

Whites

Perhaps all of our good present-day-whites stem from Kashmire White, which is from mesopotamica blood—the line which gave us the tetraploid (48 Chromosome count) a race of bigger, and better branched iris. Purissima has proven a wonderful parent in this color—being the pod parent of such famous iris as Snow Flurry, Lady Boscawen, Priscilla, And Thou and a host of others. Its children in whites and blues are producing splendid offspring. Easter Morn has been a good parent for whites, and it is related to Purissima, but not derived from it. Some of the blues, derived from whites will be useful parents for whites. Gloriele has been useful for producing whites—it being the parent to White Goddess and Katherine Fay to mention the whites and to Cloud Castle, Alicia and my own Sky Tint to mention three of the newer light blues, and these should all be good in the breeding of both whites and blues. Spanish Peaks is descended from Purissima, and its size may be very useful with other lines in the production of fine whites. Vigil is a beautiful white with a long season of bloom—its blood stemming, no doubt, from W. R. Dykes through Gudrun and therefore containing mesopotamica blood from this line as well as Venus de Milo. It is quite apparent the important part Snow Flurry is playing, and will play, in the breeding of whites, as well as other colors, for already

have come Gentle Florence, Chi-Yun, New Snow, Blizzard, White Ruffles and Glistenglow to mention only a few. Others are coming on the horizon. A host of fine Snow Flurry seedlings were seen last season here in Utah. Mrs. Crosby has several worthy of consideration from this fine parent by the use of Cloud Castle as well as Icy Blue and Great Lakes. Cloud Castle gives great width to the petals of its children. Miss Rees, the breeder of Snow Flurry has produced a host of fine seedling from this great variety—two of which I am introducing this year—the white one is worthy of consideration for its great size, fine form and other good qualities. Sierra Snow may prove a useful parent in whites. I had an especially beautiful, heavy substantced ruffled seedling last season No. 49-17 out of Azure Skies x 45-42: Easter Morn x Stella Polaris—an interesting pedigree since Stella Polaris is a sister to Violet Crown and is, of course, an Easter Morn seedling. How useful the whites from the Lemon-white or plicata origin will be remains to be seen. These produce considerable yellow in the makeup—either in the beard or texture-veining.

Blues

The true blue has yet to be achieved, although some recent developments are strides forward, and among these we must list Blue Rhythm, Helen McGregor, Sylvia Murray, Azure Skies, The Admiral, Pierre Menard, Alicia, Blue Valley, and Chivalry. Of course I like the individual flowers of Mirror Lake, the unusualness of Sea Lark, and the beautiful form and quality of Sky Tint. Mary Clotilde is a smooth flower. Mountain Sky, Blue Spire and Anitra have produced some fine seedlings. Great Lakes has become an important parent in this color class as have Gloriole, Blue Zenith, Lake George, and Azure Skies. There is texture veining in some of the seedlings of Great Lakes, although some of its seedlings are without this quality. Blues derived from Gudrun should have smoothness of texture. Helen McGregor will, undoubtedly, become a wonderful parent for blues, as will some of the other whites, blues, and blue-whites derived through Purissima, Great Lakes or Easter Morn blood. The Admiral x Great Lakes has produced the new Seafarer, and Pale Moonlight x Great Lakes gave Mrs. Corey Bay State. What the new blues from Great Britain and Australia will do in breeding remains to be seen, but they should be extremely useful for color as well as blood refreshment. Perhaps some of the derivatives of regelia species *l. hoogiana* will prove a trail to better blues, for *hoogiana* carries considerable of the true blue we seek. I have used some of the *Regelia* seedlings of the Sasses in my work as well as my own Hoogie Boy and other *hoogiana* seedlings produced from Indian Chief and some from Mary Tharp by Souv. Madam Gaudichau. These seem to be easy pod parents and their pollen is quite fertile on the Tetraploid tall bearded sorts. Although Hoogie Boy is poorly branched and the stems are rather weak its seedlings have been quite good when used with varieties like Snow Flurry with heavy stalks. One seedling from Polly x Hoogie Boy was the bluest of my 1949 seedlings—interesting too, because of the Susiana blood back of Polly and the Purissima blood as well. There is one with variegated foliage from a seedling of Alice Horsefall x Peshawar by Hoogie Boy pollen, however, this will not bloom before 1951.

Blends

This color class still offers great possibilities for I hardly think the surface had been scratched. The popularity of Sunset Blaze, the new Award of Merit winner Three Oaks, Miogem, Rilla Gabbert, Lamplight, Pathfinder, Campfire Glow, Gypsy Rose, Honeyflow, Cape Bon, Arab Chief or even the new Rainbow Room—all in various degrees of color, each a beauty in its own right, show modern trends. Brown Stain has been well liked in my garden—a large full flower that at last produced seed by my own Utah Sunset (soon to be introduced) and Campfire Glow. While Daybreak hasn't been very exciting here its seedlings possess a smoothness and quality to merit their use in further breeding work. I am introducing one of these this year as a potential breeder, and I have seen its seedlings, it has been named Dream Along. Both Tobacco Road and Prairie Sunset have been useful as parents and grandparents—these are the parents to 46-16 (Gems of Topaz, and Sunset Road being introduced this year), which crossed on Honeyflow gave me Utah Sunset and a host of other fine seedlings. Undoubtedly Cascade Splendor is to prove a wonderful new parent as is Chamois. I have been quite fond of Utah Special which I am putting out this year—it combines Dr. Kleinsorge's lines with those of Mrs. Whittings (as does Dream Along) and the combination is a dainty, delectable blend—delightfully formed and somewhat ruffled, but as yet it has refused to set seed for me and it has no pollen. Sultan's Robe is producing some rich blends with fine form. Aztec Copper should be useful. It is the parent to Char-Maize, Honeyflow, and Tobacco Road. The Cross that gave Argus Pheasant (Casa Morena x Tobacco Road) produced fine things for me—a ruffled copper-brown blend that may be named and introduced in 1951, another season of trial will tell. Of course for richness of color my new Lady Albright will command attention in any planting—its pedigree is that Whiting-Kleinsorge combination. So you see there are still many possibilities awaiting the hybridizer who wishes to continue in this field.

Yellows

Some will say we have enough yellows. True, we have a great many fine yellows, but there will always be room for better ones at the top. There are still some shades of yellow which are lacking in the iris rainbow. We can always use a really different yellow—something richer in color, superior in form, substance, or with better growing habits. Ruffling adds to any flower—perhaps Chantilly or Gold Ruffles will help to produce new and unusual yellows. Already Golden Eagle and Zantha have proven fine parents—golden Eagle for the smoothness it gives its children and Zantha has produced that delightful new yellow and white combination with ruffling: Truly Yours. Zantha may lack substance in itself, as perhaps does Golden Eagle but they have, surely, the ability to produce seedlings adequate in this respect, or even superior. Ola Kala, Cloth of Gold, Admiration, Berkeley Gold, Golden Ruffles and Illinois Sunshine all seem to be very fine iris and all should hold promise as breeders. Ola Kala, I have found, throws rather small seedlings—especially when used as pollen parent. I have seen some very good things where it is the pod parent, however. Golden Ruffles has refused to set seed for me and has no pollen—so it is probably of some upset number of chromosomes. I would suggest using Baghdad pollen on it for Baghdad seems to have the most potent pollen of any iris I have ever used. Sunny Ruffles, Aglowing, and Goldbeater should be fine parents in this color class, and if you want ruffling use Chantilly, Gold Ruffles, Midwest Gem, or Pale Primrose. Arcadia Buttercup looked very bright and smooth on first year plants last year. Moontide I think of in terms of breeding for oranges, but it belongs here and is a tall, well branched wide clean deep yellow with quality written all over it. My new Yellow Tower is somewhat reminiscent of Moontide, but in a lighter shade—it should be useful for many colors—pinks, salmons, oranges, blends, etc. Orangeman should be here, also, and yet I keep thinking of it in terms of breeding oranges—a bright garden subject, too. Acadia, Damascus, and Pale Primrose not to be overlooked.

Oranges

Already mentioned are some fine yellows that have Orange blood, these nearly all contain Naranja blood: Moontide, Orangeman, Damascus, Tiffanja, Goldbeater, Orange Gem, Rocket, Prince of Orange, Ella Callis, Top Score, Orange Flare, and Symbol. Perhaps here, Mexico and Jasmine may be useful in this color as would Ola Kala. Carl Larsen produced a large orange self from Ola Kala x Garden Glory and the surprising thing is that the stalks have height. Coloratura and Treva may be useful, too, in this color. But I have often said that our true oranges may possibly come from the new strain of Shell pinks with "those" beards. Here Leilani, Salmon Shell, Pink Salmon, Melitza, Spindrift, Premier Peach, and like blood will do the trick. Gay Orchid (coming as it does from so much of the Sass' and Loomis' iris throws these colors. It is the parent of the smooth Apricot Glory which I will introduce next year, the beard is of the same general color as the flower. From a sister to the "Lost Chord pink," I wrote about in 1947—coming from Gold Ruffles x 45-64-1A: Alice Harding x Dr. Loomis' Type Dore—a Sea Shell seedling, crossed with Pink Formal there were several salmon pinks, orange-yellows, and pinks—even Orchids and blends, so one can see the possibilities of oranges, at least, from this blood.

Creams

This is a very important color in the garden picture—especially useful for calming down "loud" colors. There are a number of good creams: Snoqualmie, Amandine, Carved Ivory, Ruffled Bouquet (really a bi-color), Desert Song, Creamo, and perhaps Golden Treasure and Ivory Charm should go here as well. One that impressed us last year was Walter Welch's Haughty—a clean flower of fine proportions. We grew Mrs. Pullar's Patricia Joyce and have decided to introduce it this year—another fine Purissima seedling to add to its already well known posterity. Patricia Joyce is, without doubt, the smoothest cream I have ever seen or grown. It can be seen from this list that almost without exception these have come through white bloodlines used with yellow. Mr. Naylor of Salt Lake City exhibited his new seedling, now named Moonlight Serenade, out of Snow Flurry x Hall's 42-10, last season at the Salt Lake City iris show and its color might belong here, although I thought of it as a lemon-cream, but whatever the color it was delightful. 42-10, its one parent, being a seedling of Golden Eagle supplied the yellow gene here, as well as smoothness, a width to the petals that was delightful as well as fine branching, whereas Snow Flurry seemed to furnish a ruffling and character to the flower difficult to describe, together, no doubt, vigor and height. Needless to say this flower and its sisters, should be useful for breeding creams as well as whites, pinks, and other colors.

Mulberry

This class could be widened. In it we would place: Master Charles, Purple Moor, perhaps even The Red Douglas, Burgundy Rose, Story Time and in the lighter tones Mulberry Rose and Ventura. Elmohr still stands supreme.

Orchids and Mauve

Frieda Mohr was long a standard in this color class. New additions include Dreamcastle, Fantasy and Gay Orchid to mention only a few. If you want Wide petals—Dreamcastle looks like a real breeder. For smoothness Lynn Langford, Gay Orchid, and Harriet Thoreau should be useful. The new pinks throw a lot of these orchid and mauve colors as witnessed by Fantasy, Gay Orchid and Pagan Princess.

Plicatas

So varied have the plicatas become that we might expect almost anything. Interest seems to have been centered on the yellow-ground plicatas, however, since the advent of J. Sass' Siegfried, Tiffany, Orloff and Bonanza, and nearly all of the advances in this color come through them, although Mary Geddes has played a part in some. Many iris carry plicata blood and we must look to these carrying the recessive plicata blood, very often, if we choose this class for hybridizing. For instance I used Gold Ruffles and Salar (both plicata carriers) and produced one yellow plicata—this in turn crossed on Rare Marble gave me a red plicata of size and quality that may be named. The lemon-whites from plicatas are of course plicata carriers and very often produce bright seedlings—some are: Elsa Sass, Moonlight Madonna, Belle Amie, Jake, Snow Velvet, and Cool Lemonade. In the blue and white plicata class Aldura, for form and substance is a wonderful parent and its newer child Blue Rim is exciting in the blue and white class. Blue Shimmer, Los Angeles, San Francisco and Snow Crystal all look good in themselves and for breeding. In the red and yellow plicatas Rare Marble, Firecracker, Fire Dance, Vision of Mirza, Royal Scot and Tiffany should still be useful. There are some new ones coming on the horizon from DeForest, Craig and possibly others.

The Lemon Yellows

This class should almost be coupled with the yellow-ground plicatas, as previously mentioned, for they come from them. They are a clean-looking group of iris. Lugano, a new one from Cayeux of France looks interesting since it has such fine branching and blooms over a long period of time—it is said, likewise, to have a re-blooming tendency. Mattie Gates is a big flower with sharp contrast in its coloring, but for me it has had a strong tendency to bloom too heavily. Although not tall or large I think Cool Lemonade has a particular charm in that it is a complete self—even to the beard, and the fact that it starts the tall bearded season makes it especially welcome. Carl Larson used Cool Lemonade on his Celestar producing some fine seedlings—one an improved Cool Lemonade which we hope some day to introduce.

The Reds

We're still looking! Hoping! Who knows where the break may come? Some advances have been made—mostly toward giving our "reds" a finished look. We have eliminated striations or haft markings. With such varieties as Garden Glory and Burmese Ruby we have real smoothness of finish—and the latter has achieved one sought goal—it is a complete self—the standards being the same color as the falls. In 1945 there appeared in my seedling beds two iris No. 45-116: sister to Brown Stain and 45-105: E. B. Williamson x Charm—both quite red—the latter almost on the order of Radiant so it was on the copper side. These were crossed from them came a seedling No. 47-125 with the reddest velvet falls imaginable—this has been crossed with Velvet Mantle and Burmese Ruby—we will watch the seedlings with keen interest. Undoubtedly both Red Gleam and Red Valor are to be good parents in this color class, with Red Torch, Garden Glory, Garden Flame proving their worth. Garden Magic has produced some fine seedlings among them Ranger (a rather difficult parent), and Garden Glory. I had a red-purple seedling from Rubeo x Garden Magic which crossed to Garden Glory gave me two splendid seedlings—both keenly reminiscent of Garden Glory and both on the short side—the best, 48-118 A, was crossed on Velvet Mantle, Burmese Ruby and a seedling from E. B. Williamson x Ranger. Campfire Glow, while primarily a deep rich blend appears to me to have considerable red in its makeup and should be a fine parent here. About the best of the introduced reds as they have grown for me is Redwyne—a real standout. It is the only Christabel derivative I have seen to show such quality. Perhaps it is a bit on the short side, as most of the better reds have been. Oh, yes, and we cannot overlook the rich Solid Mahogany, Apex, and Orelia.

The Blacks

Like the reds these have been, very often, on the short side. Bob Schreiner had to tell me, when I commented last year on Black Forest producing seedling on the small side, that I had better not get myself out on a limb then proceed to cut the limb off—a good warning for it appears no such statement can be made, flatly, regarding any iris for very often with the right things they produce something we hardly expect in size or color and our claims are proven wrong. The Schreiners evidently have a series of seedlings from Black Forest that are both

large and tall—one parent used with it was Down East. I have a rather good sized one—not too bad for color from Black Forest x After Midnight, but I look on it only as a breeder's iris. Night Life has the quality I'd like in a tall, well branched "black," but then I would want to put black in the style arms and the beard—and make the falls flare as Night Spot's do. Sable is still good, but we hear reports on Paul Cook's newer seedlings that indicate an advance in this color class. Storm King, Ethiopie Queen, Tenaya, Ebony Queen and that charming Black Forest are all good and will surely have a place in breeding this color. We hear some good reports from several hybridizers, including Dr. Loomis, with seedlings from Elmohr x Sable.

The Pinks

A few years back it was all big pink blends like Remembrance, even Morocco Rose, Lancaster, or Amitola. These are now relegated to their proper color class in the blends, for these all had considerable yellow in their makeup. Pink Satin or even Pink Ruffles (a delightful iris) are no longer considered pink, of course, for the pinks are here with the arrival of Dr. Loomis' break Sea Shell and David Hall's Flamingo pinks which all stem from Morocco Rose—so these lines can be considered quite closely related, and because of this the cross I made to produce Pink Formal and Pink Tower was just a continuation of their fine work and shows further line breeding. Surely a good break and one I bless both Dr. Loomis and David Hall for every day. I have told you before of the shell pink break I had No. 44-67 a small salmon-pink sister to Gold Ruffles. Now, here was pallida, variegata and mesopotamica blood, so where did the color come from? Who knows? I have thought mesopotamica (or Ricardi) probably played the important part, however, each of the breaks producing these new pinks with the tangerine beard have had *I. pallida* blood—in fact Mr. Wareham's "Gold Fish" was a pallida (24 Chromosomes) pure and simple—this one has "the beard" associated with these breaks. I produced one light pink from Morocco Rose x Chosen. Morocco Rose, of course, being a half sister to Sea Shell is a known carrier of the tangerine beard and will produce this color and orchid pinks with "that beard" when bred to the right iris. Mount Washington will breed this color, so is a carrier of the tangerine beard—it is the parent to Tom Craig's new Peach Parfait. I have not thought a great deal of either Melitza's or Flora Zenor's children, however, last year there appeared among my seedlings a deep true pink from S. Q. 72 x Flora Zenor that on not too close inspection was a great pink garden subject, but its falls were as dirty as Flora's, however, to go another generation I crossed Pink Formal on it. The Lost Chord pink I produced from Gold Ruffles x 45-64-I A: Alice Harding x Dr. Loomis' Type Dore—a Sea Shell seedling was crossed, as I told you in 1947, with Pink Formal—the resulting seedlings mostly all bloomed in 1949—one of which seemed to fill my every requirement for a PINK iris and it was without increase—being high on a ridge, but to carry on the color and form I used its pollen freely and set three pods on it—and late in the fall there appeared one tiny increase—you can imagine the handsprings I turned, but at this writing I am not sure if it has survived the long winter. If it has lived I hope to share it with you iris lovers as soon as possible. I may, anyway, put one or two of its sisters out for breeding—these were all large—several of them as large as Wm. A. Setchell, some lacked depth of color, but they had fine form—wide petals and good branching, and surprisingly excellent increase—some of the rhizomes 8 to 10 inches long with increase eyes all along the "toe." There was one sister 49-11 just as deep in color as the new "lost Chord," 49-11 C, but it has a bit of dirt in the falls. These were all used for breeding. I have not found the dark pink blends such as Matula or Daybreak to be very useful with the shell pinks—at least not in the first generation, but next generation—when crossed with pinks the pink color comes forth—very often giving their grandchildren fine form, good branching and smoothness, coloring—or depth of color. We must seek out these rich colors to intensify the pinks, I believe, although much can be done by careful line breeding or in-breeding. Hybrid vigor is brought in, however, by the introduction of new blood. The wise breeder looks not to the first generation alone, but to the second, third or even later generations. A careful study of Paul Cook's Sable or Lancaster pedigree, or David Hall's pinks will bear this out as will, surely, the careful work of those remarkable pioneers Hans and Jacob Sass—both of whom are now gone, but their work remains a monument to their memories, for there is scarcely a notable new iris which does not trace back to their fine work. A great majority of my iris owe their origin to the work of the Sasses, and we bless other hybridizers like Foster, Dykes, and Bliss of England; Mohr, Mitchell, Grace Sturtevant, Williamson, Kirkland, Salbach, White, Essig, Thorup, Whiting, and Kleinsorge, for all have contributed greatly to modern iris. There are other hybridizers coming on the horizon whose work will soon figure into this ever growing army of hybridizers. I believe the work of K. Smith, Nesmith, McKee, Fay, Craig, Taylor, Larsen, Rees, DeForest, Lapham, D. Hall, Loomis, Tompkins, and others will go down in iris history as great contributors to our wonderful flower.

The Amoenas

Wabash has long been the standard by which all other amoenas are judged, and possibly will lead to better varieties along this line. The amoenas and neglectas, in this country, mostly seem to stem from Lent A. Williamson blood. Dorothy Dietz may still be useful for this color, it has no pollen but sets seed with ease, and the same is true of the new Extravaganza which is the parent to the new Gaylord and others said to be advances in this class. Choir Boy and Mt. McKinley may be very useful as will others with any amount of new blood, for this strain needs a little vigor to insure better germination. Toward this goal I have used Caroline Burr (which is from a fine neglecta) for its seed germinates with ease, as does most of the derivatives of Easter Morn or Purissima. Mist Glow, while nothing ultimate in itself is producing some advances along this line, they seem to possess vigor and easily germinated seed. As mentioned last year perhaps Shannopin will be useful in this class. One should guard against striations of the hafts, but there is vigor here that could be most useful. Some of the new English varieties will be useful with the bloodlines mentioned above. What these so-called yellow amoenas will do remains to be seen—but at least they have considerable interest in their new and novel color pattern. Pinnacle, Fairday, and Lamplit Hour, fore-runners of this new class, will be sought for hybridizing for they come as a "break," possibly even unexpectedly, for their bloodlines would hardly indicate they were the result of a long line of careful planning for this color. Carl Larsen has some, mostly all grandchildren of Aldura, indicating their wide blood inheritance: yellows, blends, variegatas, blues, plicatas and whites. Reports have reached me of fine amoenas produced from Louvois x Frank Adams. This later parent may be worthy of a trial in this color since one of its parents is Rameses, which is, of course, of variegata blood and it is likely the amoenas do carry this blood for Wabash has a strong tendency to throw variegatas. We cannot overlook that delightful amoena, Louise Blake, in this program for it has the blood to produce this color as well as neglectas.

The Variegates

City of Lincoln was long the standard by which all other variegatas were judged, but we can safely say now, however, perhaps Staten Island is worthy of this distinction. Of course there are other good ones—the late-blooming Gypsy, and should Red Torch go here? Rajah Brooke? Frank Adams has been a good performer, although the contrast in the coloring of its standards and falls is not so great as that of some of the others. I had a splendid new one last year from a David Hall variegata seedling No. 38-09 x Gypsy that will surely be named—providing, of course, it lives. So many of our better iris carry variegata blood that something of this pattern may crop out at any time. Salar by a seedling of mine involving plicata lines of the Sasses threw an unusual variegata with deep rich brown falls and tan border. Louise Blake x a seedling from Valor x Wabash gave a similar rich brown variegata that I am thinking of naming. I'm sure we have not exhausted the possibilities in this color class—we can still add ruffling, height, branching, perfume, and other qualities. (P.S. Don't overlook Black and Gold, The Oriole, and Top Score.)

"Greens"

Lately there seems to be growing interest in this color. Perhaps the value of a real green will lie in its novelty rather than as a garden subject. But flower arrangers will have a holiday with this color, surely. Developments along this line have come; most of these are descended from Purissima or Conquistador, although some of the chartreuse, or greenish-gold, varieties stem from the yellows and blends, but the green-whites are far cleaner looking. My own Green-glow possesses a certain charm in its subdued coloring. We hear good reports of the new Char-Maize and seedlings from this and Green Pastures. Likewise reports come of a Craig seedling from Gay Senorita x Joppa Parrot that has considerable green in its makeup. Both Walter Welch and Paul Cook have developed some greens mentioned in A.I.S. bulletins. The Sass brothers have some developments along this line, and these stem from *I. pumila*. Clarence Jones of Indiana is working especially for this color. Mary Rich Lyon and Clovelly may hold possibilities for this color as might Caroline Burr, Anne-Marie Berthier, and Azure Skies—this latter being the parent of the new greenish seedling of Henry Schirmer's.

Re-Bloomers

Here is a class that will try the patience of a tireless hybridizer. Many discouraging years may pass before a strain of re-bloomers is established—at least a strain that will bloom consistently early for most sections of the country. Of course in Southern California many varieties send up off-season bloom stalks, among these are China Maid, Radiant, Flora Zenor, Pink Lace, Mount Timp, and many others including seedlings of both Purissima and Tiffany. Red Ray and Tiffany are known breeders of re-blooming seedlings. Autumn Flame, White Alone, Mount Timp,

Priority, Kansas Ingleside, Radiant Lady, Painted Desert, possibly Snow Flurry and other Purissima derivatives, and the new Lugano should all be useful toward this goal, as should derivatives of Ethel Peckham, Sunset Serenade and Sultan's Robe.

The Hybrids

Under this heading we should deal only with those varieties which are from two distinct species, but many of us have come to think of these and their "children" in the same category. At least they are a new strain of iris and where there is any fertility they should be extremely useful. Many hybridizers are working to make the descendants of Wm. Mohr fertile parents, yet they all voice the same opinion—when these descendants become very fertile they are usually quite strictly Pogon in appearance and their seedlings, as well, seem to fall in the same class. There is a possibility, however, that the right combination of genes may come together to produce an exotic tall bearded iris with size, height, form and substance—with an oh, so beautiful flower—the pattern of Gatesii, Lorteti, Susiana and Bismarkiana all rolled into one—and instead of a true beard a wide signal patch that marks those unusual Oncocyclus. We have some good material from which to work. Capitola has already proven its worth as a fine parent. It has the ability to produce seedlings with a strong Oncocyclus appearance, many of them well branched—nearly all with wide full flowers of good form and substance. It is probably the finest parent in this class we know. It is a difficult, if not almost impossible, pod parent, but when it has pollen this is very fertile. Ib-Macrantha is extremely fertile of pollen as well (it being the pollen parent of Capitola, Morera, Peshawar, and Silver Charm), its seedlings generally carry a strong Onco-shape, and wide styles. Joppa Parrot is, without doubt, the most potent pollen parent in this class of plants and already reports are coming in of the strange and unusual seedlings it produces. It is going to be a little difficult to grow, perhaps, but for those who like this race of plants it will be a "must." Capitola's children have yet to prove themselves. Lady Mohr has not produced anything that has brought forth any great excitement—or at least such word of praise has never reached my desk. I have bloomed only a handful of its seedlings, and they have been of no consequence—several only the size of a half dollar. I have not found The Lady's pollen fertile, nor that of Elmohr, but at least Elmohr has produced a few good seedlings. Milliken has introduced Mohr Beauty from Elmohr and we may soon see others, for as mentioned before Elmohr x Sable has produced several good seedlings. I have had some good enough to number—some plicatas from it by Cool Lemonade, and these have fertile pollen, and set seed. We hear reports of crosses on Elmohr by Capitola—this should be exciting. The best one I have had from Elmohr is a rich mulberry—heavy of substance and nicely ruffled—a true border iris. Its pollen parent is Tompkins' 42-58: ((Wm. Mohr x Mussolini) x (The Red Douglas x Joycette)) I will name this if it lives. My own hybrid Hoogie Boy is fertile both ways. Hoogsan is fertile, as are most of the hybrids from Hoogiana. The remarkable increase from these hybrids and their seedlings is astounding. I had one seedling from Snow Flurry x Hoogie Boy with twenty-four natural increase on a first year plant. What could we do with increase like this on some variety the iris world would like, and at a price it could afford to pay? Ormohr x Brunhilde has produced the new Lady Dozier—a splendid addition to this class.

Fragrance

Isn't the urge strong to want to "sniff" a beautiful flower for an added thrill? The surprise may come when there is no perfume! How many times have Camelias or Gladiolus, for instance, been pressed near one's nostrils to catch some delightful odor only to find there was none. Rare is the iris without some kind of fragrance. It is a quality the judges give points to, and the average lover of flowers will always venture to find, so it is worthy of a little consideration. We have two extremes of fragrance—that of the species, or near species, Sambucina giving us the pungent or unpleasant odor and Iris pallida the sweet or pleasant perfume. In crossing these strains various types of unusual fragrances have come. Snow Flurry, for instance, has a delightful perfume somewhat reminiscent of Orange Blossoms, Mary Clotilde is distinctly Spicy, while others have fragrances of Honey Locust, Magnolia, Clover, Lily of the Valley, Sweet Pea, Lilac, Pansy, Almond, etc. I have had several with the odor one inhales when a box of choice chocolates is opened. A few varieties with lovely perfume, and worthy of consideration in hybridizing for this quality, other than those already mentioned, are: Shining Waters, Sylvia Murray, Sea Lark, Brunhilde, China Maid, Song of Gold, Pink Ruffles, Violet Symphony, Easter Morn, Misty Gold, Katherine Fay, Rubient, Gloriole, and a host of others.

Diseases

I don't pretend to know much about iris diseases or their cures, but will make a few suggestions that might prove helpful. First, it is important that all plants should receive the essential elements necessary for their health. Starved plants, I am sure, are more subject to disease

than strong, healthy ones. It is now generally accepted that iris require greater "feeding" than had hitherto been deemed necessary, and the use of barnyard fertilizers are known to be most beneficial to plants to insure health and bloom. I'm sure too few of us take advantage of the resources that are ours in making compost from leaves, grass cuttings, vegetable waste, weeds and barnyard manures. The natural fertilizer thus obtained encourages the lowly and very useful earthworm which fertilizes, pulverizes and aerates the soil. Not only will natural manures or compost supply the necessary food elements for the soil, they will add humus which is very essential to most soils to keep them light and workable. It will be important to supply this fertilizer when needed, and if fresh manures are used these should be used carefully. Our A.I.S. President, Guy Rogers, wrote a detailed article on preparing beds for iris in Bulletin 106 of the American Iris Society. Surely his iris plantings prove the value of his method of fertilizing. I am not, however, in favor of commercial fertilizers (artificial, that is) for they very often become insoluble in the soil or encourage quick growth that is entirely unnatural—leaving plants subject to disease. Artificial fertilizers can do wonders for quick results. Some fanciers give a feeding of super phosphate just as the buds start to break through the fans in early spring—this will make exhibition stalks. Many of our growers have success with the use of chicken manures, however, these are worked into the soil deep under the rhizomes before planting so that the fertilizer works out into the soil and the roots feed down to it; although rhizomes never come in direct contact with the fertilizer. But this has all been on fertilizers and not on diseases, so enough!

Rot

There are various types of rot that affect iris—most of these are caused by moulds or bacteria. Clean cultivation, proper feeding, and dividing will help to control the diseases. Winter rot (*Botritis*) works during cold weather and is found after the snows have gone—leaving rhizomes that are nothing but a soft mass of fiber and mould. Every bit of this could be cut away and carefully destroyed; the living plants will probably show no sign of the disease if the healthy parts are divided and possibly moved or given some new soil during the summer. Where only small pieces of old toes, or rhizomes, are left these should be dipped in a strong solution of potassium permanganate or Lysol—about one-half teaspoon to one-fourth pint of water; then allow the plants to dry in the sun if large—or in the shade if small and weak—then replant. For bacterial soft rot, which appears in late spring and summer, cutting away of all affected parts (being sure to burn or destroy these and cleaning all tools used in doing this), then treating the remaining cut parts with a solution of Lysol or potassium permanganate should do the trick. The same can be said for Mustard-Seed-Fungus which will attack the base of rhizomes and in the advance stages the spores are found in the form of mustard seeds—these should, of course, all be carefully destroyed—the soil and the rhizomes (if left intact) should be treated with a solution of Potassium Permanganate. Leaf-spot, while disfiguring to the foliage does not usually kill plants but will somewhat weaken them if allowed to infest the plants heavily. This disease is usually the result of crowding or follows considerable rain and warm weather. This can be controlled by picking off the leaves that are affected—if started early and continued, the disease will not spread. Scorch, however, is a "mystery" disease and little is known about its cause or cure, although some experiments are going forward among breeders and fanciers in areas where the disease is most common. Plants affected with Scorch (or Fire, as it is sometimes known) lose their roots—the tops turn yellow—the rhizomes sometimes takes on a reddish or orange hue and is, to all appearances, a firm rhizome, these remain firm and often send out new roots and try to live—but very often plants taken from these show the disease. This is a warm-weather ill coming during the summer months, usually. It is wise to dig all such rhizomes—some success has been had in exposing these to direct sunlight for several days then replanting, however, others have had better results by dipping the rhizomes in solutions of Lysol, potassium permanganate, or fermete then store the plants for several days or even two or three weeks in a dry but shaded place then replanting. I have only had four plants affected with this disease that I recall—two of them sent in to me and the others seedlings—one of these was a fine clump of a numbered seedling and the disease appeared in May—just at blooming time—I took the spade and dug under it, giving a "shove" toward heaven for I was going to throw the plant away—then I repented and just let the plant settle back in place without pressing the soil around its roots—after two or three weeks it had started new growth and by fall apparently had recovered. Sir Cedric Morris of England reports success using sulphathiazole solutions for scorch.

Good drainage is essential to all Tall Bearded iris, so in soils that are heavy or hold moisture it is well to have the furrows raised in which they are planted. Heavy soils should have some sand or fine gravel mixed with them. Sunlight, and clean cultivation will insure healthy and strong plants.

Rhizome Size

We hear much of large and small rhizomes. There are no "Best" rhizomes. I have purchased both large and small plants. Sometimes the small ones have grown better for me than the large water-soaked "beautiful" plants. We can say this: If you live in a section where rhizomes produced are large and used to much water that kind will grow best for you and if you live in a dry section or a cold climate the small hard rhizomes may do better for you. I have known rhizomes from sections of the country where there is considerable lime in the soil to do very poorly when sent to sections where much moisture and acid soil conditions exist—these plants seldom bloom the first year and seem to take a year to accustom themselves to the differences of climate and soil. Some varieties, too, produce huge rhizomes while others have small rhizomes. At any rate if a rhizome blooms the first year one may sacrifice both quality of the bloom and natural increase. If a rhizome waits to bloom until the second year the bloom should be normal and the increase much greater, so although we like to see bloom on first year plants, many times it is to our advantage if small rhizomes or those with only one or two normal increase wait until the second year to send up bloom. Nature compensates in one way or another, and we fanciers somehow adjust when a new plant "fails," giving us something to look forward to next year!

Seedlings

Again I will offer some of my seedlings to those who are interested in certain bloodlines. This year I will have some special crosses to offer at \$1.00 each. Pink Seedlings from my own lines involving Pink Formal, Halls, Fays, Loomis' and my own break—44-67 (sister to Gold Ruffles) will be offered at \$2.00 each. Here are a few crosses you may like.

1. **ELENA CHOOSING x 47-38 A: ZEBULON x GOLDEN EAGLE:** These had size, height, branching and huge rhizomes—should be valuable with other Onco blooded plants such as Capitola, Ib-Mac, or Joppa Parrot.\$1.00
2. **SNOW FLURRY x HOOGIE BOY.** Vigor of growth—good stalks. Should be useful for whites, blues, orchids and blends. Each.....\$1.00
3. **49-11 SERIES: LOST CHORD PINK No. 47-72 x PINK FORMAL.** Only a limited number to be sold. Each.....\$3.00
4. **CASA MORENA x TOBACCO ROAD.** Brown blend. Sister to, or same cross that produced Argus Pheasant. Each.....\$1.00
5. **(SALAR x GOLD RUFFLES) x RARE MARBLE.** Plicatas.....\$1.00
6. **HALL'S 44-09 (Sister to Floradora) x PINK FORMAL.** These will be selections from last year. Each\$2.00
7. **PINK CAMEO x PINK FORMAL.** Each.....\$3.00
8. **COURTIER x PINK FORMAL.** Each.....\$3.00
9. **YELLOW AND WHITE SISTER TO WAXY WHITE** (Whiting's 40-86: Matula x Midwest Gem) x Hall's 42-10.....\$1.00
10. **Some Elmohr, Suez, Ormohr, Wm. Mohr and Grace Mohr derivatives and some from a Larsen seedling (Mohrson x Sdlg.: Beau Ideal x Wasatch) x Capitola.** These are very onco in appearance. The Larsen seedling is a plicata and may be offered for sale next year for its breeding possibilities since it sets seed with ease and has fertile pollen. Each\$1.00
11. **Any color you may suggest: whites, yellows, blends, plicatas, coppers, browns, reds and deep purples—or some parentage which may particularly interest you.....\$1.00**

TALL BEARDED IRIS SEED

Again I will make special crosses that I feel will produce advancements in various colors. If you desire seed be sure to send your order in as early as possible, so I can judge about how many crosses in the different colors I will have to make since I do all this personally. It will not be possible for me to make crosses with specific parents for you since, very often, certain varieties fail to bloom, have no pollen or the weather plays havoc with one's work. You may suggest one parent and if at all possible I will make crosses using this variety and you may be sure I will select the other parent with great care and it may be a new seedling of my own which has bloomed for the first time or one that may be named at a later date.

No less than 20 seeds of a cross will be sold.

All colors, including the new pinks, 5c each.

Crosses using Pink Formal pollen, 10c each.

Crosses using Apricot Glory (to be introduced in 1951), 10c each.

AN INVITATION TO JOIN THE AMERICAN IRIS SOCIETY

To anyone not already a member of the American Iris Society who has a love of Iris, we most heartily recommend your joining. The yearly dues are only \$3.50 or \$5.00 for husband and wife (family) membership. Or \$5.00 for sustaining membership, those who wish to help the society with a little personal contribution. The four bulletins published, together with other privileges for members make this a bargain no iris fancier should deprive himself. You may send your memberships directly to:

THE AMERICAN IRIS SOCIETY
444 Chestnut Street
Nashville 10, Tenn.

Or we will gladly send your membership in for you and if included with an order for iris will send you \$1.50 worth of iris, your choice, one Pink Formal seedling, or Mount Timp and Dawn Overlay.

The American Iris Society has published a fine book: The Iris An Ideal Hardy Perennial. \$1.50 paper bound or \$2.50 permanent binding. They also have Prof. Sidney Mitchell's book: Iris For Every Garden at \$3.00 These may be had by ordering directly from the A.I.S., or include with your order for iris rhizomes or seed.

TERMS OF SALE

Cash with order. Postage paid on orders over \$3.00. Orders for less add 25c to cover packaging and postage.

Shipping Dates

We start shipping about July 1, however, our rhizomes are more fully matured after July 15. We continue shipments until October 1.

DISCOUNTS — EXTRAS

We offer a 25% discount on all orders over \$10.00. Or if you prefer, give us a list of alternates, or extras, which you would like to grow. Some of our stocks of novelties are quite good and we like to be generous. We can offer no discount on varieties marked "Net," but you may list some extras we may select as our good-will offering for your kind orders.

Replacements

We will replace any variety you have purchased from us which fails to live or is untrue to label.

DIARY FOR PINK FORMAL

Kept by Fisher Harris, 1422 Military Way, Salt Lake City, Utah, one of the city's and state's leading attorneys. A neighbor to James L. White, another prominent attorney. Both maintain wonderful and interesting gardens and collections of many of the latest novelties in iris—and have proved their ability, too, by their winnings at the shows in Salt Lake City the past few years.

* * * *

PINK FORMAL (Muhlestein 1949.) Received as a guest July 15, 1948. Substantial growth apparent August 4. Goes into winter with three "fans."

1949

March 20. Two new shoots up in front.

April 22. Bud apparent.

May 11. First bloom. Height 33 inches. Wind and rain. During a few hours of fair weather I made a careful comparison with another new pink. Pink Formal much larger, deeper color, standards closed, the other open. Pink Formal glows in the garden; stands out as though others surrounding were the frame and it the picture. Vicious wind this evening followed by rain.

May 12. Flower undamaged: has increased in size and brilliance. Cruel wind tonight.

May 13. Flower still brighter and even larger (seven inches across, falls flare.)

May 14. Compared with another pink this is not in the same class at all. Its relation to Pink Formal is about that of California Gold to Ola Kala. Deluge of rain 3 to 6 p.m. Next top bud out almost in full at 7:30 p.m. Also flower on first branch; and so, though the original flower was in good condition, I took it off.

May 15. It rained during the night and I removed hundreds of flowers that were wrecked by that rain and the previous one. Both blooms of Pink Formal, however, are in perfect condition. Hard rain with a few minutes of light hail 5 to 7:30 p.m. Standards of most others have flopped and falls of many are shredded, but Pink Formal not injured: standards still closed and erect.

May 16. Rain during the night; both flowers look fine; larger and even brighter, though again some hundreds of others had to be picked off to save the garden picture.

May 17. Rain last evening and all through the night. Pink Formal still as good as new. (The same is true of sdlg.: (Morocco Rose x Hall's 42-10) x (Pink Formal) which is not so large or quite so deep a color, but still the second best pink I have seen during this or any other season.) Three blooms now. Rain at noon; wind; rain evening. Five minutes of sunshine today.

May 18. Rain during the night. Top flower slightly wilted at 6 p.m.

May 19. Still bright and the center of interest. "Bright and fair" today, though too much wind.

May 20. More rain and hail tonight. Show specimens had to be cut to save them for the show tomorrow.

May 22. First day no bloom out on Pink Formal—one more terminal bud to open.

May 24. Last flower opened today, still of good size, color, and form.

May 29. Flower fading, slowly curling up. Thanks for a good performance.

(To Replace the Picture of Pink Formal)



HELEN FITZGERALD
The smooth "Lobelia Violet" self